

DW800

Maintenance Manual

REV.8.2

Read and keep this manual

- Read safety instructions carefully and understand them before starting your operation.
- Keep this manual at hand for reference.

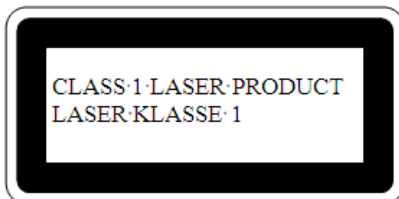
Federal Communications Commission (FCC) Statement

NOTICE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against such harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

“EINE LEICHT ZUGÄNGLICHE TRENN-VORRICHTUNG, MIT EINER KONTAKT-ÖFFNUNGSWEITE VON MINDESTENS 3mm IST IN DER UNMITTELBAREN NÄHE DER VERBRAUCHERANLAGE ANZUORDNEN (4-POLIGE ABSCHALTUNG).”

“Maschinenlarminformationsverordnung 3. GSGV, 18.01.1991: Der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemas EN ISO 7779”

CLASS 1 LASER PRODUCT



警告使用者：

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Warning:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Warnung:

Dies ist ein Produkt der Klasse A. In nichtgewerblichen Umgebungen können von dem Gerät Funkstörungen ausgehen, zu deren Beseitigung vom Benutzer geeignete Maßnahmen zu ergreifen sind.

A급 기기
(업무용 방송통신기자재)

이 기기는 업무용(A급) 전자파적합기기로서
판매자 또는 사용자는 이 점을 주의하시기 바라며,
가정 외의 지역에서 사용하는 것을 목적으로 합니다.

The EMI test was done in the following configuration.

If a trouble occurs in another configuration, a user may be requested to take appropriate preventive measures.

- $RKU + CBLM / CBLH + DB60 + DBF + DBS \times 3 + DBL \times 3$
- $RKU + CBSS + DB60 + DBF + DBS \times 2 + DBL \times 1$
- $RKU + CBSL + DBS \times 1 + DBL \times 1$
- $RKU + CBLH + CHBB + DBF + DBS \times 3 + DBL \times 3$

Please use the supplied power cord. The power cord may not be used with other products.



This symbol on the product or on its packaging means that your electrical and electronic equipment should be disposed at the end of life separately from your household wastes.

There are separate collection systems for recycling in EU. For more information, please contact the local authority or the dealer where you purchased the product.

Preface

This manual describes the maintenance of DW800 Storage system, including installation and replacement. Before starting maintenance, read the manual carefully to be familiar with operating procedures and instructions.

Particularly, be familiar with the Safety Section and obey its instructions.

Keep the manual on hand for your convenience.

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Windows	: Registered trademark of the Microsoft Corporation in USA.
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ESCD	: Registered trademark of the International Business Machines Corporation in USA.
IOCDS	: Registered trademark of the International Business Machines Corporation in USA.
MVS	: Registered trademark of the International Business Machines Corporation in USA.
OS/390	: Registered trademark of the International Business Machines Corporation in USA.
PPRC	: Registered trademark of the International Business Machines Corporation in USA.
TSO	: Registered trademark of the International Business Machines Corporation in USA.

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1. Model Name Conversion

(1) Model name conversion

Read each array model names as shown in the table below.

Table 1-1 Conversion Table for Array Model Name

Model name	Abbreviation for Model Name
DW800-CBSS	CBSS
DW800-CBSSD	CBSSD
DW800-CBSL	CBSL
DW800-CBSLD	CBSLD
DW800-CBL (For CBLM)	CBLM
DW800-CBL (For CBLH)	CBLH
DW-F800-DBS	DBS
DW-F800-DBSC	DBSC
DW-F800-DBSD	DBSD
DW-F800-DBL	DBL
DW-F800-DBLC	DBLC
DW-F800-DBLD	DBLD
DW-F800-DB60	DB60
DW-F800-DB60C	DB60C
DW-F800-DBF	DBF
DW-F800-CHBB	CHBB

(2) Conversion table of model names and abbreviation

This manual does not describe DW-F800-DBSC/DBSC, DW-F800-DBLC/DBLC and DW-F800-DB60C/DB60C except for the following differences.

DW-F800-DBSC/DBSC, DW-F800-DBLC/DBLC and DW-F800-DB60C/DB60C have the same procedures for DW-F800-DBS/DBS, DW-F800-DBL/DBL and DW-F800-DB60/DB60, respectively. Therefore, read DW-F800-DBS/DBS as DW-F800-DBSC/DBSC, DW-F800-DBL/DBL as DW-F800-DBLC/DBLC and DW-F800-DB60/DB60 as DW-F800-DB60C/DB60C except for the shared part.

Table 1-2 Difference between DBS/DBSC, DBL/DBLC and DB60/DB60C

Chassis Name	Power Supply
DW-F800-DBS	Contains BNST
DBS	
DW-F800-DBSC	BNST free
DBSC	
DW-F800-DBL	Contains BNST
DBL	
DW-F800-DBLC	BNST free
DBLC	
DW-F800-DB60	Contains BNST
DB60	
DW-F800-DB60C	BNST free
DB60C	

(3) Conversion table of abbreviation of AC power and DC power

This manual does not describe the CBSSD, CBSLD, DBSD and DBLD except for the following differences.

The CBSSD, CBSLD, DBSD and DBLD have the same procedures as the CBSS, CBSL, DBS and DBL respectively.

Read the CBSS, CBSL, DBS and DBL as the CBSSD, CBSLD, DBSD and DBLD respectively except for the commonly written section.

- Difference between CBSS/CBSSD, DBSL/DBSLD, DBS/DBSD and DSL/DBLD

No.	Chassis Name	Power specification
1	CBSS	AC power supply
	CBSSD	DC power supply
2	CBSL	AC power supply
	CBSLD	DC power supply
3	DBS	AC power supply
	DBSD	DC power supply
4	DBL	AC power supply
	DBLD	DC power supply

(4) Overview of the All Flash Model

The All Flash Model supports the Drive Box and the drives shown in [Table 1-3](#).

Table 1-3 All Flash Model Support List

Supported Drive Box	Supported Drive	Maximum Number of Drives
DW-F800-DBF	DKC-F810I-1R6FN	VSP F400: 192
	DKC-F810I-3R2FN	VSP F600: 288
	DKC-F810I-6R4FN	VSP F800: 576
	DKC-F810I-7R0FP	
	DKC-F810I-14RFP	

In this manual, replace the product names of the All Flash Model as shown in [Table 1-4](#).

Table 1-4 Replaced Product Names for All Flash Model

Product name described in this manual	Product name to be replaced for All Flash Model
VSP G800	VSP F800
VSP G600	VSP F600
VSP G400	VSP F400

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REVISION CONTROL OF MAINTENANCE MANUAL

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
8.2	Jun.27.2017	Rev.8.1 → Rev.8.2	i	CH
		"DP / TI pool consolidation support" was added/changed.	FIRM06-39A SIMRC02-141 TRBL08-20, 70, 10-20, 22, 23, 100, 120	AD/CH
		"Interrupting Format Task" was added/changed.	MPC04-390, 391	AD/CH
		Description improved.	TRBL11-51	CH
		Procedure to collect Rapid was added.	REP02-11-100, 110(New), 02-16-80, 160, 240	AD
		Troubleshoot was added.	MPC01-501, 502(New), 510, 511(New)	AD/CH
		Troubleshooting Related to Installation and Upgrade was changed.	MPC01-501 TRBL03-630, 631(New), 632(New)	AD/CH
		NOTICE was deleted.	INST04-01-10	DL
		Event Log was added.	TRBL03-793(New), 794(New)	AD
		Message note was added.	FIRM05-240, 241(New)	AD
		Notes on controller board blocked was changed.	REP02-04-10, 180, 02-05-10, 130, 02-06-10, 02-11-10, 02-20-10, 90, 02-24-10, 02-25-10, 02-26-10, 02-28-10	CH
		Compatible drive support.	THEORY04-06-310 PARTS03-80	AD
		Note to iSCSI online firmware update working time was added.	FIRM03-42	AD
		Drive type names were added. (DKS5E-K600SS/K300SS)	THEORY04-05-70, INST01-02-210, 211(New) ACC04-140	AD
		Battery life message was added/changed.	SIMRC02-41	AD/CH
		"1c0000" was added.	SIMRC02-91	AD
		Version down compatible was added.	FIRM03-40 MPC01-240 TRBL02-490, 03-1140	AD/CH
		Checking Overlap of Port Number for the Maintenance PC was added.	FIRM03-69A, 05-10A, 10C, 200, 202 INST01-06-80, 02-01-11, 06-01-20, 06-02-10, 06-03-10 MPC00-10~100, 01-102, 110, 150, 210, 220, 221, 280, 510, 02-20, 12-90(New), 100(New), 13-30(New), 40(New) TRBL03-630, 680, 690, 691, 700, 701, 721, 722, 723, 725, 726 REP02-01-80, 02-21-30	AD/CH
		Note of dummy parts was added.	INST01-01-10, 04-08-470, 620	AD
		Note of BKMF/power supply prevention replacement was added.	REP02-07-20, 02-15-20, 80, 140, 200, 260, 320	AD
8.1	May.5.2017	Rev.8 → Rev.8.1	i	CH
		Recovery Procedure for pool-VOL Blockade Improvement.	TRBL10-22, 23, 30, 90, 90A (New), 11-20, 21 (New), 50, 51 (New), 21-10	CH
8	Apr.26.2017	Rev.7 → Rev.8	i	CH
		Drive type names were added. (480MGM [SLB5F-M480SD], 960MGM [SLB5F-M960SD], 3R8MGM [SLB5F-M3R8SS])	OPTVER01-40 THEORY02-03-50, 51 (New), 02-07-20, 04-05-70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 04-06-20, 300, 320, 321 (New), 04-08-20, 30 INST01-02-10, 11, 30, 31, 70, 110, 03-03-20, 04-03-40 REP02-03-50 PARTS02-10, 30, 40, 41, 42, 43, 250, 270, 280, 290, 310, 320, 321, 323, 324, 03-90, 91, 92	AD
		Drive type name was added.	INST01-02-210, 220, 231 ACC04-140, 141	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		"VLAN support" was added.	FIRM06-38 THEORY02-02-80 MPC04-200, 440, 460, 470, 480, 490, 500 TRBL04-1190	AD/CH
		"VLAN support" was added.	FIRM06-38 THEORY02-02-80 MPC04-200, 440, 460, 470, 480, 490, 500 TRBL04-1190	AD/CH
		"Inline Dedup/Comp" was changed.	FIRM06-39D THEORY00-00-30, 02-16-10, 11(New), 20	AD/CH
		"[Capacity Saving Status] is other than "Disabled"" was changed.	FIRM06-38A, 39 TRBL04-233, 10-120, 140, 21-20	CH
		Recovery Procedure for Quorum Disk was changed.	FIRM06-39B, 39C(New), 39D(New) TRBL18-110, 111(New), 120, 130	AD/CH
		"Stopping/Starting the Storage Navigator Services" was added.	FIRM03-69, 69A MPC00-10 through 100, 01-110, 111, 112 (New), 150, 201, 221, 249D, 301, 310, 313, 320, 440, 450, 491 (New) through 494 (New), 500, 510, 530, 570, 10-20 TRBL03-791, 792	AD/CH
		"Window" was changed.	MPC01-121	CH
		"Java Security Settings" was changed.	MPC00-40, 03-1020, 1021 (New), 1040, 1050	CH
		Locale was added.	MPC01-10, 11(New), 521, 522(New)	AD/CH
		"Maintenance PC Specifications (RAM)" was changed.	MPC01-10	CH
		"Internal Alert Detail window" was added.	MPC03-801(New)	AD
		"SWPK#" was changed.	SIMRC02-311, 311A (New)	AD/CH
		Troubleshooting code was changed.	TRBL03-722, 724, 725, 726, 727	AD/CH
		Specification improvement.	THEORY03-04-10	CH
		"Recovery Procedure When an MP Error Occurs" was changed.	TRBL03-1130, 1131(New)	AD/CH
		"Profile tool" was added.	INST01-05-10, 20	AD/CH
		CHB Flash data update Notes was added.	FIRM03-50, 50A(New), 67, 67A, 67B, 122	AD
		"Notes on the specified device" was changed.	TRBL04-910, 920, 930, 940	AD/CH
		Flowchart was changed.	TRBL03-880, 900 REP01-02-10	CH
		"Quick Formatting Time" was added.	THEORY02-03-110, 111(New) REP01-06-30, 40, 41	AD
		Note to iSCSI online firmware update working time was added.	FIRM03-41	AD
		ONLINE MAINTENANCE was changed.	REP01-07-10, 20, 01-09-10, 11(New), 20, 30(New), 01-10-10, 20, 30(New)	AD/CH
		"PECB" was changed.	TRBL03-930	CH
		Table 2-27 was changed	THEORY02-04-10	CH
		"GUM parallel update is possible" was added.	FIRM03-40, 41, 42(New), 110, 121, 131(New), 140, 150	AD/CH
		Procedure for Updating Firmware was changed.	FIRM03-68, 68A(New)	AD/CH
		The "Update Firmware" window is not displayed after the Java logo appears and then disappears was added.	MPC01-550	CH
		Troubleshoot remained at power failure was added.	FIRM03-64, 80, 04-30	AD
		Recovery procedure when dedupe and compression operation abnormality is detected was added.	TRBL21-10	AD

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REV.	Date	Description	Sheet No.	Code
		Sentence was changed.	TRBL21-10	CH
		An error of the screw number was changed.	INST03-08-260	CH
		*3 was added.	TRBL10-110, 120	AD/CH

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REV.	Date	Description	Sheet No.	Code
7	Feb.27.2017	Rev.6.1 → Rev.7	i	CH
		Descriptions were revised by Fx00 Refresh.	vi THEORY01-03-51, 01-04-60, 04-06-10, 20, 41, 04-07-30 LOC00-10, 20, 05-10, 30, 100, 290, 310 INST01-03-21, 100, 05-01-10	CH
		*10 was changed.	OPTVER01-40	CH
		IR9MGM was added.	OPTVER01-40 THEORY02-03-110, 04-05-70, 90, 100, 110, 120, 130, 140, 150, 160, 04-06-320, 04-08-20, 30 INST01-02-10, 11, 30, 31, 70, 110, 03-03-20, 04-03-40 REP01-06-30, 40, 41, 02-03-50, PARTS02-10, 30, 41, 42, 43, 250, 270, 290, 310, 321, 323, 03-90, 91, 92	AD
		global-active device was added to F model.	OPTVER01-70 INST01-02-271 (New page), 301 (New page), 340 (New page) MPC03-341, 342 (New page), 360	AD
		Sentence was changed.	FIRM03-50	CH
		"Attention: Overwrite current GUM firmware if both versions are the same." was added.	FIRM03-100, 110, 111 (New page) FIRM05-16, 16A INST06-02-70	AD/CH
		"Attention: Forcibly upload the firmware." was added.	FIRM03-100, 110, 111 (New page) FIRM04-51, 60, 61 (New page), 81, 82 (New page), 130, 131(New page) FIRM05-16, 16A INST06-02-70	AD/CH
		"When an error occurs during Java program startup." was added.	FIRM04-10, 52 (New page), 60	AD/CH
		142, 144 to the system option mode was added.	FIRM05-420	AD
		Changed Function ID: 01:04	FIRM06-31	CH
		Add Function ID: 01:27	FIRM06-34	AD
		Add Function ID: 03:00	FIRM06-38A (New page), 39, 39A (New page)	AD
		Add Function ID: 07:08	FIRM06-39A	AD
		"Elimination procedure of the virtual volume" was corrected.	FIRM06-38A, 39, 39A TRBL04-232, 233, 10-22, 110, 140, 21-10, 11(New page), 20, 30, 50	CH
		"Effect on the information due to configuration restoration" was added.	FIRM00-10 FIRM05-201 FIRM06-50 (New page), 60 (New page), 70 (New page)	AD
		"Changing Java Security Settings when Electronic Certificate is Expired." was added.	FIRM03-51, 52, 53(New page) MPC01-240, 240A, 240B, 440, 450, 520, 521, 550, 551(New page), MPC03-1020 to 1050(New page) TRBL03-630	AD/CH
		"Data Erase Pattern" was added.	THEORY02-07-10	AD
		The Note of LDEV maintenance was changed.	THEORY03-03-20, 30	CH
		Description of dedupe and compression was added.	THEORY03-03-20, 31 (New page) INST01-05-20 TRBL00-80, 21-70 (New page)	AD

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REV.	Date	Description	Sheet No.	Code
		Drive type name was added.	THEORY04-05-70, 80, 170, 180, 190, 200, 04-06-300, 301, 302 (New page) ACC04-320 PARTS03-90	AD
		Drive type name was added. (DKS2H-H4R0SS, DKS2H-H6R0SS, SLB5E-M200SD, SLB5EM400SD, SLB5E-M1R9SD)	THEORY04-05-70, 80, 04-06-301, 310, 320 INST01-02-210, 220, 230, 231 (New page) ACC04-140, 200, 320 PARTS03-60, 91	AD
		The notes of Environmental Conditions were added.	THEORY04-08-60	AD
		Start up time was changed.	INST01-06-80 MPC01-280 TRBL03-620, 621, 712	CH
		(2) was changed.	INST02-03-70, 03-04-100	CH
		*4 was changed.	INST03-01-40, 50	CH
		Plastic dummy was added.	INST03-05-50, 51, 120, 190, 03-07-70, 03-08-260, 03-12-50, 04-05-60, 120, 180, 04-07-60, 04-11-70 PARTS02-40, 43, 80, 83, 90, 110, 120, 130, 150, 160, 450	AD
		"CTL maintenance blockade working hours" was added.	INST03-08-10, 03-09-10, 04-08-10, 04-09-10 REP02-04-10, 02-05-10	AD/CH
		(4) was changed.	INST03-09-30, 31	CH
		Checking the connection between the maintenance PC and storage system was added.	INST07-01-110	AD
		Changed the message's images.	INST04-03-30, 04-04-70, 240, 440, 04-05-30, 90, 150, 04-06-20, 04-07-30, 04-11-20	CH
		When HCS (Hitachi Command Suite) is used, the information registered on HCS also needs to be changed. was added	MPC00-20, 01-570 (New page), 03-750	AD
		Table 1-1 was changed.	MPC01-10	CH
		"12" was added.	MPC01-521	AD
		"#19680 pointed out" was added.	MPC01-111, 240, 240A, 332, 333 (New page), 10-10	AD
		"A start procedure of Java" was added.	MPC01-441 (New page), 442 (New page)	AD
		"Maintenance Utility Troubleshooting	MPC01-560	AD/CH
		Server name was changed.	MPC03-240, TRBL03-100	CH
		The explanation of FMD Dump was added.	MPC05-40, 130	AD
		Dump collection and initial analytical procedures were added.	MPC05-40, 41, 42, 43 (New page), 44 (New page) TRBL00-80, 22-10 (New page), 20 (New page), 30 (New page), 40 (New page)	AD
		"83-02-04-x0/xx" → "83-03-21-x0/xx"	MPC10-20	CH
		"NOTE : When the Maintenance PC is connected to CTL1. ..." was added.	DIAG02-50, 04-210, 220	AD
		"cf14xx" was added.	SIMRC02-30, TRBL03-50	AD/CH
		Sentences was changed.	SIMRC02-40	CH
		A reference destination was added.	SIMRC02-40, 41 (New page)	AD
		A reference destination was added.	SIMRC02-50, 311	AD
		"641xxx" was added.	SIMRC02-141, 313	AD
		"02 : " was added at dedupe and compression failure.	SIMRC02-171	AD
		"Recovery procedure when LDEV format failed" was corrected.	SIMRC02-91, 313 TRBL02-300, 03-20	CH
		Flowchart was changed.	TRBL02-80, 92, 182, 183, 184 (New page), 03-1380, 1390, 1400 (New page)	CH
		"Recovery procedure when LDEV format failed" was corrected.	TRBL02-300, 301 (New page)	CH

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REV.	Date	Description	Sheet No.	Code
		Flowchart was changed	TRBL03-1160, 04-180, 211, 234 (New page), 06-150, 160, 07-160, 18-80, 21-10	AD/CH
		"3.31" was changed.	TRBL03-800	CH
		The explanation of FC swich was added.	TRBL04-10, 21, 22 (New page)	AD/CH
		Snap on Snap support.	TRBL08-30, 42, 44, 70, 80 GLOSSARY01-10, 20, 30, 40, 50, 60, 70 (New page), 80 (New page)	CH
		Flowchart was changed	TRBL10-40, 50, 60, 90	CH
		Flowchart was changed ("11.2.2 Recovery Procedure for Path Single Failure (SIM = 21d0-xy)").	TRBL11-60, 61 (New page), 62	CH
		Dump name was changed.	TRBL20-130	CH
		"21.2" (SIM = 680002) was added.	TRBL02-432, 21-40 (New page), 50 (New page), 60 (New page)	AD
		Addition of FMC copy time calculation method.	REP01-06-20, 21 (New page)	AD
		Description is added.	REP01-10-10, 20	AD
		2U chassis battery from parts catalog was deleted.	PARTS02-20, 30, 41, 42, 60, 70, 81, 82, 03-50, 60	DL
		Parts number was corrected.	PARTS03-50	CR

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REV.	Date	Description	Sheet No.	Code
6.3		Rev.6.1 → Rev.6.3.	i	CH
		Add Function ID: 03:03	FIRM06-39, 39A (New page)	AD
		Add Function ID: 03:08	FIRM06-39	AD
6.2	-	-	A missing number	-
6.1	Nov.16.2016	Rev.6 → Rev.6.1	i	CH
		FC 32 Gbps Channel Board was added.	OPTVER01-30, 40 THEORY01-04-20, 40, 60, 02-02-10, 04-08-20, 30 LOC02-130, 170, 180, 190, 200, 201, 202, 210, 03-80, 04-10 INST01-02-10, 11, 20, 21, 60, 100, 02-10-110, 03-10-10, 30, 40, 41 (New page), 50, 70, 71 (New page), 80, 110, 111 (New page), 112 (New page), 120, 140, 141 (New page), 150, 171, 180, 181 (New page), 190, 210, 211 (New page), 220, 03-14-10, 20, 70, 110, 170, 210, 260, 300 TRBL00-10, 02-416 (New page), 417 (New page), 418 (New page), 04-21, 110, 120 REP02-12-40, 130, 220, 02-13-10, 11 (New page), 30, 90, 100, 160 PARTS02-20, 40, 41, 43, 60, 80, 81, 83, 100, 110, 140, 150, 440, 450, 03-80, 90, 91, 92	AD
		UVM was deleted.	OPTVER01-70, MPC03-360	DL
		Windows10 was added.	FIRM03-64A, 81, 05-13 INST06-02-40, 07-01-40, 07-03-50 MPC01-10, 71, 80, 09-10, 10-10 TRBL03-630 REP02-21-10, 20, 30, 40	AD
		SOM 867 and 990 were added.	FIRM05-420	AD
		Add Function ID: 02:30	FIRM06-38	AD
		Add Function ID: 03:01	FIRM06-38, 39	AD
		"User Capacity" was changed (9943.33 → 9790.36).	THEORY04-06-301	CR
		Environmental conditions was changed.	THEORY04-08-40, 50	CH
		(3) was added.	INST03-01-70, 80	AD
		"firmware version is 83-04-02 or later" was added.		
		NOTICE was changed.	MPC01-111	CH
		(1) was added.	MPC01-130, 140	AD
		[Obstacle Infor Dmp] was deleted.	MPC05-50, 60	DL
		(27) was changed.	SIMRC02-290	CH
		Improve the power OFF procedure.	INST01-05-40	CH
		2.4 was deleted.	TRBL00-10, 02-440	DL
		*4 was added.	TRBL03-260	AD
		*1 was changed.	TRBL03-1021	CH
		*5 was added.	TRBL10-20, 21, 22, 23, 30	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
6	Sep.26.2016	Rev.5.5 → Rev.6	i	CH
		IDWPD Support	INDEX vi OPTVER01-40 THEORY02-03-60, 70, 110, 04-05-70 through 200, 04-06-20, 300, 330, 340, 04-08-30 INST01-02-50, 90, 130, 210, 220, 230, 01-03-110, 03-03-10, 20, 04-03-40 ACC04-260 REP01-06-30, 40, 41, 02-03-50 PARTS02-390, 410, 03-91, 92	AD
		FC 32 Gbps Channel Board was added.	OPTVER01-30, 40 FIRM03-20, 40, 67, 67A (New page), 122 (New page), 06-36 THEORY01-04-20, 40, 02-02-10, 04-05-10, 30, 04-06-240, 250, 04-08-20, 30 LOC02-130, 170, 180, 190, 200, 201, 202, 210, 03-80, 90, 04-10, 20 INST00-00-40, 50, 01-02-10, 11, 20, 21, 60, 100, 240, 02-10-100, 110, 03-05-10, 40, 50, 80, 110, 120, 121 (New page), 150, 180, 190, 191 (New page), 03-10-20, 30, 40, 50, 60, 61 (New page), 70, 100, 110, 120, 130, 131 (New page), 140, 170, 171 (New page), 190, 200, 201 (New page), 210, 03-14-10 through 300 (New page), 04-05-50, 110, 170 MPC04-450, 05-1030, 08-30, 40 ACC04-20, 60 TRBL04-20, 21 (New page) REP02-12-40, 50, 60, 120, 130, 140, 150, 210, 220, 230, 240, 02-13-30, 50, 100, 110, 120, 160, 170, 180 PARTS02-20, 30, 40, 41, 42, 43, 60, 70, 80, 81, 82, 83, 100, 101, 110, 120, 130, 140, 141, 150, 160, 440, 450, 03-70, 80, 90, 91, 92	AD
		NFHAE-QxRxSS → NFHAx-QxRxSS	SAFETY03-110 LOC03-210 REP02-03-110, 03-01-10 PARTS03-100	CH
		7. INSTALLATION was changed.	START02-10	CH
		10 TB Disk Drive was added.	OPTVER01-40 THEORY02-03-20, 40, 110, 04-05-80 through 200, 04-06-300, 301 (New page), 04-08-20, 30 INST01-02-20, 21, 40, 50, 80, 90, 120, 130, 210, 220, 230, 03-03-20, 04-03-40 REP01-06-30, 40, 41, 50, 02-03-50 PARTS02-50, 70, 81, 82, 170, 190, 210, 230, 241, 243, 330, 340, 360, 370, 03-80, 90, 91	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Firmware version was changed.	OPTVER01-40, 61, 70 FIRM01-10, 03-10, 20, 30, 40, 50, 51, 52, 69, 69A, 71, 100, 120, 140, 150, 05-15, 16, 16A, 171, 392 THEORY01-04-30, 70, 02-03-60, 70, 02-12-10, 04-03-40, 50, 04-05-10, 40, 60, 04-06-240, 241, 04-08-60 INST01-02-241, 245B, 249A, 270, 300, 330, 01-03-30, 31, 90, 01-06-90, 03-03-10, 130, 140, 03-04-60, 252, 280, 440, 470, 630, 650, 810, 03-05-10, 20, 30, 60, 80, 90, 130, 150, 160, 200, 03-06-10, 03-07-20, 30, 80, 03-08-20, 110, 140, 310, 350, 390, 03-09-20, 50, 03-10-20, 90, 100, 160, 170, 210, 03-12-20, 03-13-10, 03-14-10, 03-15-10, 04-03-10, 20, 150, 04-04-60, 70, 230, 240, 430, 440, 580, 590, 04-05-20, 30, 80, 90, 140, 150, 04-07-20, 30, 04-08-690, 730, 04-09-20, 40, 04-11-20, 06-02-60, 70, 242, 07-01-10 MPC01-110, 121, 141, 150, 180, 190, 201, 230, 240, 241, 249D, 249E, 290, 300, 302, 310, 311, 313, 315, 400, 470, 472, 473, 474, 475, 476, 02-50, 60, 61, 03-180, 191, 200, 210, 220, 230, 230A, 231B, 232, 232B, 233, 234A, 235, 236, 236A, 250, 340, 341, 360, 380, 410, 420, 430, 440, 580, 600, 620, 640, 810, 860, 880, 04-20, 270, 05-40, 42, 70, 1020, 1030, 07-80, 110, 10-20 DIAG04-120 ACC04-41, 131, 141, 200, 320 SIMRC02-190, 220, 290, 310, 311, 312, 313 TRBL13-10 REP02-01-90, 02-03-20, 30, 31, 210, 220, 02-04-20, 30, 160, 170, 190, 200, 330, 340, 02-05-20, 30, 110, 140, 150, 260, 02-06-20, 90, 02-07-20, 60, 02-08-90, 150, 250, 260, 02-09-20, 50, 70, 80, 02-10-20, 30, 60, 70, 90, 100, 140, 150, 02-11-20, 40, 90, 02-12-20, 30, 70, 80, 100, 110, 160, 170, 190, 200, 250, 260, 02-13-20, 60, 80, 120, 140, 180, 02-14-20, 30, 80, 90, 02-15-20, 60, 80, 120, 140, 180, 200, 240, 260, 300, 320, 360, 02-16-20, 30, 70, 100, 110, 150, 180, 190, 230, 02-20-20, 30, 70, 100, 110, 150, 180, 190, 230, 260, 270, 310, 340, 350, 390, 02-24-20, 30, 80, 90, 02-25-20, 30, 70, 80, 02-26-20, 30, 60, 70, 02-27-20, 50, 02-28-20, 30, 70, 80, 02-29-90, 220	CH
		Manual created due to the FC32G firmware update operational change.	OPTVER01-40 FIRM03-20, 21 (New page), 40, 41, 50, 67, 120, 150 INST03-01-10, 03-05-10, 11 (New page), 80, 81 (New page), 150, 151 (New page) MPC05-1030, 1070, 1080 DIAG05-20, 21 (New page) TRBL00-10, 02-414 (New page), 415 (New page), 04-21, 40	AD/CH
		NOTICE and NOTE was added.	OPTVER01-10, 20, INST03-03-10	AD
		License was added.	OPTVER01-60 through 70 INST01-02-241, 245, 249 MPC03-330 through 341, 360	AD
		License for NAS was added.	OPTVER01-70 INST01-02-270, 300, 330	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Firmware Transfer time was changed.	FIRM03-20, 40, 41 (New page) MPC01-249C	CH
		NOTICE was added.	FIRM03-20, 40, 50, 51, 52	AD
		Sentence was changed.	FIRM03-67, 122	CH
		CHB Flash data update Notes was added.	FIRM03-67, 67A, 67B (New page)	AD
		NOTE was added.	FIRM03-150	AD
		*3 was added.(B#10031)	FIRM04-40, 41, 120, 140	AD
		Setting of IIS was changed.	FIRM05-10A, 171, 200, 392 INST06-01-20, 06-02-242 MPC01-390, 391, 400, 401 (New page), 434 (New page)	AD/CH
		Add Function ID: 02:04, 02:18, 02:21, 02:22	FIRM06-36, 36A (New page), 37, 38, 39 (New page)	AD
		Storage System Specifications was changed.	THEORY01-04-10, 20, 40, 50, 60, 70	CH
		Quick format specification of change.	THEORY02-03-80, 90 MPC04-350, 360	CH
		Erase Time was changed.	THEORY02-07-20	AD
		"This connector is only for use in Japan." was added.	LOC02-131, 220	AD
		Constitution of the PDU for the rack frame was changed.	INST01-02-150	CH
		IO Expansion BOX 1:4 connection screen guard correspondence	INST02-10-141, 03-12-30, 40, 04-11-20, 30, 80	CH
		Dedupe and Compression was added.	INST03-01-40	AD
		Window was changed.	INST03-05-20, 30, 40, 90, 100, 110, 160, 03-06-20, 04-05-20, 30, 40, 80, 140, 04-06-10 REP02-12-20, 80, 100, 170, 190, 260, 02-13-20, 60, 80, 120, 140, 180, 02-29-20, 90, 120, 210, 240, 290	CH
		"Not Fix" procedure was added.	INST03-05-70, 140, 200, 201 (New page)	AD
		DP pools was added.	INST07-01-20, 70, 80, 07-03-80	AD
		Sentence was deleted	INST07-03-10	DL
		"firmware versionis 83-04-01 or later " was added.	MPC01-110	AD
		"No.11" was added.	MPC01-520, 521	AD
		Added to "Failure".	MPC01-530	AD
		User group of the table was changed.	MPC03-100	CH
		"Offset boundary" was changed.	MPC04-50, 60	CH
		iSCSI IPv6 UNH was Supported	MPC04-460, 470, 480	CH
		Add notes that do not DP initialized to LDEV in the Format of the DRD-VOL	MPC04-770 TRBL10-110, 120	AD
		NOTE was added.	MPC05-42	AD
		3. was changed.	MPC09-190	CH
		Port was added.	MPC12-20, 21	AD
		"Ephemeral Ports" was added.	MPC12-60	AD
		Error Code was changed.	DIAG06-590, 670 through 830, 910, 911 through 913 (New page), 920, 950 through 1090 (New page)	AD/CH
		List of ACC (SFP Speed) was added.	ACC01-10, 04-40, 41, 100, 110, 120, 121 (New page), 130, 131	AD
		SIM Reference Codes Detected by the Processor for dedupe and compression was added.	SIMRC02-171	AD
		0x41 to Byte13 was added.	SIMRC02-310	AD
		Byte27=8E and Byte28=40 was changed.	SSBLOG05-770	CH
		"4.2.3.10 Using Failed LBA Output Tool" was added	TRBL00-50, 04-210, 211 (New page), 231 (New page), 232 (New page), 233 (New page), 1121 (New page), 1122 (New page)	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		"21 dedupe and compression Error Recovery" was added.	TRBL00-80, 02-432, 21-10 (New page), 20 (New page), 30 (New page)	AD
		Flowchart was changed.	TRBL03-1150, 1151 (New page), 08-50, 10-20, 22 (New page), 23 (New page), 30, 70, 100, 101 (New page)	CH
		Pinned track was added.	TRBL04-160, 161 (New page)	AD
		EVS relation was added.	REP01-06-80, 02-04-180, 350, 02-05-130, 270, 02-29-10, 100, 110, 220, 230, 290	AD
		(3) was changed.	REP02-11-30	CH
		ID 1710, 1712, 6781, 6784, 6820, 7261, 7262 was added.	MSG04-60, 240, 250, 310	AD
		ID 6722, 6785, 6885, 7168, 7200, 7204, 7346, 7348, 7687, 7748, 7767 was changed.	MSG04-230, 250, 270, 290, 300, 330, 400, 500	CH
		4HF32R to parts list was added.	PARTS03-50	AD
		The term was added.	GLOSSARY01-20, 30, 40, 50, 60	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
5.5	Nov.10.2016	Rev.5.4 → Rev.5.5	i	CH
		NOTICE was added.	FIRM03-20	AD
		Failure to DKC firmware update was added.	FIRM04-10, 51 (New page), 60	AD
		Change Function ID: 01 : 04	FIRM06-31	CH
		Specification changes "System Selection - Software Version".	INST01-06-61, 62 MPC01-244A, 261, 262 REP02-01-61, 62	CH
		Java cache clear procedure was added.	INST07-01-110	AD
		Added a note of when you start the Maintenance Utility from the Web Console.	MPC01-460, 461 (New page), 530, 531, 540, 550, 560	AD
		[Obstacle Infor Dmp] was deleted.	MPC05-50, 60	DL
		Flowchart was changed.	TRBL02-182, 183, 03-1011, 1380, 1390	CH
		Add flow chart of when that failed to drive added.	TRBL02-220, 221 (New page)	AD
		*1 was added.	TRBL03-1020, 1021 (New page)	AD
		NOTE was added at (3).	REP02-03-220	AD
5.4	Sep.20.2016	Rev.5.3 → Rev.5.4	i	CH
		*3 was added.	TRBL04-230	AD
		SIM was changed. (2180)	TRBL07-20	CH
5.3	Aug.25.2016	Rev.5.2 → Rev.5.3	i	CH
		DBF2 was deleted.	iii, v, vi SAFETY00-10, 02-30, 40, 50, 51, 03-81, 111 OPTVER01-10, 40 FIRM03-40, 06-36, 40 THEORY01-01-10, 01-02-10, 01-03-40, 51, 01-04-60, 03-01-10, 04-01-10, 970 through 1080, 04-05-101, 121, 141, 04-06-20, 41, 60, 91, 290, 04-07-30, 04-08-10, 20, 40, 50, 60, 04-09-10, 30, 40 LOC00-10, 20, 01-11, 02-80, 03-210, 220, 230, 05-300, 310, 320, 330 INST00-00-10, 20, 30, 40, 50, 01-02-91, 131, 01-03-21, 71, 100, 110, 01-04-10, 20, 30, 02-02-90, 110, 130, 150, 02-03-140, 02-04-10, 20, 02-05-20, 30, 90, 100, 140, 02- 06-10, 30, 02-07-70, 02-08-20, 30, 40, 120, 160, 02-10- 150, 170, 180, 211, 231, 232, 250, 260, 03-03-20, 40, 41, 110, 120, 03-04-10, 51, 650 through 820, 04-03-40, 61, 130, 140, 04-04-10, 51, 580 through 730 MPC03-552 DIAG04-81, 06-120, 130, 140, 141, 142, 143, 180, 190, 200, 201, 202, 203, 240, 250, 260, 261, 262, 263, 320, 330, 340, 341, 342, 343, 380, 390, 400, 401, 402, 403, 420, 431, 432, 440, 451, 452, 460 ACC02-270, 271, 280, 281, 282, 290, 300, 310 TRBL02-421, 03-860, 861, 862, 980 REP00-20, 30, 01-06-70, 02-02-10, 20, 30, 110, 02-03- 50, 51, 70, 110, 200, 02-15-10, 250, 260, 270, 280, 300, 02-16-10, 170, 180, 190, 210, 220, 240, 02-17-10, 710, 720, 740, 750, 760, 770, 780, 790, 800, 820, 02-18-10, 20, 70, 02-20-10, 330, 340, 360, 370, 380, 381, 400 PARTS00-10, 02-410, 420, 430, 460, 470, 480, 03-60, 80, 90, 91, 920, 04-20	DL

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		1.9 TB All models support of HDD.	OPTVER01-40 THEORY02-03-110, 04-05-70, 90, 100, 110, 120, 130, 140, 04-06-300 INST01-02-70, 110 REP01-06-20, 40, 41 PARTS02-270, 310, 323	AD
		EVS status checking and restoring procedure was added.	FIRM03-51, 69, 69A MPC01-240, 240A, 241, 249B, 249D, 249E (New page), 249F	AD
		NOTE to Step 17 was changed.	FIRM03-150	CH
		[Run as administrator] was added.	FIRM05-11, 203 INST01-06-40, 02-20-10, 06-02-20 MPC01-221, 249F, 310, 311, 312 REP02-01-40	CH
		Add Function ID: 02 : 25	FIRM06-37, 38	AD
		Correction.	THEORY04-04-20, 04-06-150, 160 LOC03-50, 70, 05-60 SIMRC02-200, 210 TRBL02-450, 470, 03-1000 REP02-06-30, 02-14-10, 02-17-290, 310, 500, 510, 740, 760, 02-20-220, 300, 380	CR
		Add a battery life time of up to 34 degrees and 40 degrees Storage System intake temperature.	THEORY04-06-200	AD
		LAN Board was added.	LOC00-10, 02-131 (New page), 220 (New page), 03-40, 50, 60, 70	AD
		"Routing Example when Full Width Modules are Installed" was added.	INST01-01-30, 40	AD
		Overlap of Port Number	INST01-06-80 MPC01-280, 02-20 REP02-01-80	AD/CH
		Case of CBLH to procedure was added.	INST03-03-130, 03-04-60, 280, 470, 04-04-60, 230, 430	AD
		CWP support.	INST07-01-10, 20, 70, 90 through 130 (Delete page), 140, 07-02-30, 50, 70, 80 through 90 (Delete page), 100 through 150 MPC03-910, 970 TRBL20-350	CH/DL
		1.5.3 was added.	MPC00-10, 01-102 (New page)	AD
		7.28 through 7.32 was added.	MPC00-90, 07-140, 520 through 550 (New page)	AD
		12.8 was added.	MPC00-100, 12-90 through 100 (New page)	AD
		13.2 and 13.3 was added.	MPC00-100, 13-30 through 40 (New page)	AD
		Network settings was changed.	MPC01-70	CH
		Step 5 was added.	MPC01-430, 431 through 433 (New page)	AD
		FTP port 20 was added.	MPC02-20	AD
		NOTICE was added.	MPC03-170, 170A (New page)	AD
		Support firmware version was added.	MPC03-890, 05-40, 07-80, 110	AD
		Note was added.	MPC05-40, 41	AD
		cf8a0x was added.	SIMRC02-30 TRBL03-1300	AD
		SIM = 491000 deal sentence change.	SIMRC02-240, 250	CH
		Flowchart was changed.	TRBL02-220, 520, 530 (New page), 03-170	CH
		Troubleshooting code was changed.	TRBL03-680, 690, 691, 700, 701, 721, 722, 723, 724, 726, 741	CH
		Procedure for Checking Firmware Version was changed.	TRBL03-1330	CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		No.2 was added.	TRBL20-350	AD
		Screen was changed.	REP02-05-30, 150, 02-06-30, 02-24-20, 02-26-20, 02-27-20, 02-28-20	CH
		Sentence was changed.	REP02-06-30, 02-11-30, 02-20-190, 260, 340, 02-28-30	CH
		NOTE was changed.	REP02-12-10, 90	CH
		When the channel board replacement, SFP putting substitution procedure added	REP02-12-50, 60, 140, 230	AD
		ID4582, ID4583 was changed.	MSG03-1260, 1270	CH
5.2	Jun.30.2016	Rev.5.1 → Rev.5.2	i	CH
5.1	May.26.2016	Rev.5 → Rev.5.1	i	CH
		"Drive model" to "Drive type" was changed.	SAFETY03-110 LOC03-210 REP02-03-110, 03-01-10, 03-02-30 PARTS03-100	CH
		1.9 TB SSD was added.	OPTVER01-40 THEORY02-03-50, 110, 02-07-20, 04-05-70, 80, 150, 160, 170, 180, 190, 200, 04-06-20, 300, 320, 04-08-20 INST01-02-10, 11, 30, 31, 210, 220, 230, 03-03-20, 04-03-40 ACC04-260 REP01-06-20, 30, 02-03-50 PARTS02-10, 30, 41, 42, 250, 270, 280, 290, 310, 320, 321, 323, 324, 03-90, 91, 92	AD
		NOTE to Step 17 was added.	FIRM03-150	AD
		Flowchart was changed.	FIRM05-10A, 200	CH
		FMD (NFH1D-P1R6SS/P3R2SS) was added.	THEORY04-05-70, 170 through 200, 04-06-320 INST01-02-210 ACC04-140 PARTS03-91	AD
		*3 was deleted.	THEORY04-08-10, 30	DL
		*1 was added.	LOC03-210	AD
		Title was changed.	LOC05-100 through 280, 310, 320, 330	CH
		Number was changed.	INST01-02-60, 100	CH
		Title was changed.	INST02-10-230, 231, 232	CH
		Step 7 was changed.	INST03-03-150	CH
		Add a link to the conversion table.	INST03-05-30, 100, 03-07-50	AD
		Step (3) was changed.	INST03-12-60	CH
		Step (c) was changed.	INST04-08-40	CH
		Check system configuration was added.	INST06-01-20, 06-02-250	AD
		"All Flash Array"	MPC03-330	DL
		Checking the system configuration initialization was added.	MPC03-700 TRBL03-860	AD
		"stop" to "boot" was corection.	MPC07-380	CR
		*3 through *7 was added.	ACC04-140, 141	AD
		*3 and *4 was added.	ACC04-200, 320	AD
		Flowchart was changed.	TRBL02-50, 52 (New page), 02-400, 401 (New page), 410, 410A (New page), 03-50, 91 (New page), 92 (New page), 93 (New page), 1020, 1030, 20-70, 90, 240, 250	CH
		Contents of the Event ID 4 was changed.	TRBL03-790, 791, 792 (New page)	CH
		Recovery Procedure for UR Failure was corrected.	TRBL07-200, 220, 230, 240, 250, 251 (New page), 252 (New page), 260, 270, 310, 320, 330, 340, 341 (New page), 342 (New page), 350, 360, 380, 390	CR

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Recovery Procedure for GAD Functions Failure was corrected.	TRBL18-190, 230, 240, 250, 260, 261 (New page), 262 (New page), 270, 280, 290	CR
		Sentence to the step (4) was added.	REP02-03-30	AD
		Figure was changed.	REP02-03-51, 60	CH
		Cleaning procedures of the cable connector was added.	REP02-17-110, 231, 232	AD
		NOTE was added.	REP02-29-10, 100	AD
		CAUTION was added.	REP02-29-30, 40	AD
		"Recovery Action" to "-" was changed. ID6833, 6838, 6839	MSG04-250, 260	CH
		Model name was correction.	PARTS02-480	CR
5	Apl.21.2016	Rev.4.2 → Rev.5	i	CH
		DBF2 was added.	iii, v, vi SAFETY02-30, 40, 50, 51, 03-110 OPTVER01-10, 40 THEORY01-01-10, 01-02-10, 01-03-40, 51 (New page), 01-04-10, 40, 50, 70 (New page), 80 (New page), 03-01-10, 04-01-10, 04-06-20, 40, 41 (New page), 60, 91 (New page), 300, 04-07-10, 30, 04-08-10, 20, 30, 40, 04-09-10, 20, 30, 04-10-10, 30, 40 LOC00-10, 20, 01-11, 03-210, 220, 230, 05-10, 290 through 330 (New page) INST00-00-10, 20, 30, 40, 50, 01-02-90, 91 (New page), 130, 131 (New page), 01-03-10, 21 (New page), 71 (New page), 100, 01-04-10, 20, 30, 02-02-80, 90, 100, 110, 120, 130, 140, 150, 02-03-140, 02-04-10, 20, 02-05-20, 30, 90, 100, 140, 02-06-10, 30, 02-07-70, 02-08-20, 30, 40, 120, 160, 02-10-150, 170, 180, 211 (New page), 220, 230, 231 (New page), 232 (New page), 250, 260, 03-03-20, 40, 41 (New page), 110, 120, 03-04-10, 51 (New page), 650, 660 through 820 (New page), 04-03-40, 60, 61 (New page), 130, 140, 04-04-10, 51 (New page), 580, 590 through 730 (New page) MPC03-552 DIAG04-80, 81 (New page), 06-120, 130, 140, 141 through 143 (New page), 180, 190, 200, 201 through 203 (New page), 240, 250, 260, 261 through 263 (New page), 320, 330, 340, 341 through 343 (New page), 380, 390, 400, 401 through 403 (New page), 420, 431 (New page), 432 (New page), 440, 451 (New page), 452 (New page), 460, 471 (New page), 472 (New page) TRBL02-412, 03-861, 862 (New page) 980 REP00-10, 20, 30, 01-06-70, 02-02-10, 20, 30, 110, 02-03-50, 51 (New page), 70, 110, 200, 02-15-10, 250, 260, 270, 280, 300, 02-16-10, 170, 180, 190, 210, 220, 240, 02-17-10, 710, 720, 740, 750, 760, 770, 780, 790, 800, 820, 02-18-10, 20, 70, 02-20-10, 330, 340, 360, 370, 380, 381, 400 PARTS02-420, 430, 03-60, 80, 90, 91, 92, 04-20	AD
		"3.9 DBF2" was added.	SAFETY00-10, 03-81 (New page)	AD
		"3.17 NAS Module" was added.	SAFETY00-10, 03-160 (New page)	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		NAS Module was added.	SAFETY02-50 FIRM01-10, 20, 03-10, 20, 30, 40, 67, 68, 70, 71 (New page), 110, 120, 140, 150 LOC00-10, 20 (New page), 02-40, 140, 141 (New page), 150, 160, 161 (New page), 170, 180, 190, 200, 201 (New page), 202 (New page), 03-92 (New page), 04-21 (New page), 40 (New page) THEORY04-08-20 INST00-00-10, 40, 50, 60, 01-02-60, 100, 240, 244, 247, 01-03-30, 31 (New page), 40, 51 (New page), 02-01-11, 02-05-81 (New page), 02-08-101 (New page), 02-10-10, 31 (New page), 51 (New page), 52, 100, 03-01-20, 30, 40, 50, 03-02-10, 03-06-10 to 80 (New page), 03-08-130, 340, 350 through 390 (New page), 04-02-10, 04-06-10 to 90 (New page), 04-08-320, 680, 690 through 730 (New page), 05-01-10, 11 (New page), 05-02-10, 05-03-10, 05-05-10 (New page), 06-01-10, 07-01-10 through 07-03-100 (New page) MPC01-249B, 249C TRBL02-450, 470, 490, 500 (New page)	AD
		Reedited due to adding "CAUTION Statements" "•Be careful of a hot part: ..."	SAFETY02-51	AD
		Add the from Model name of the NAS Module.	OPTVER01-30, 40, 60, 61 (New page)	AD
		Program Product name to the "Hitachi Disaster Recovery Extended" from "Hitachi Remote Replication Extended" was changed.	OPTVER01-50, 60, 70 MPC03-330, 340, 341, 360 INST01-02-241, 244, 245, 248, 249, 270, 300, 330 SIMRC02-310	CH
		Order in the table was changed.	FIRM01-10, 03-20, 40	CH
		"NASAllFirmware.mda" correspondance was added	FIRM01-10, 03-20, 40, 52, 67, 68, 100, 120, 140	AD/CH
		Description of "DKCMAIN, ..." was changed.	FIRM03-10	CH
		Reedited due to adding "Processing before Exchange" "•To update the firmware off-line when global-active device..."	FIRM03-10	AD
		Table title was changed. *5 and *6 were added.	FIRM03-20, 40	AD
		The number of Drive Boxes and Drives was added. *6 was added.	FIRM03-40	AD
		(*1) was added.	FIRM03-50	AD
		"Clearing the cache of the browser" was added.	FIRM03-50, 51, 52 (New page), 69, 70, 71, 150 MPC01-240, 249D	AD
		Reedited due to adding the NOTICE to FIRM03-62A.	FIRM03-51, 60, 61, 62, 62A, 63, 64, 65	AD/CH
		NOTE was Additional write.	FIRM03-51, 05-16	AD
		NOTICE was moved to FIRM03-64.	FIRM03-62A	DL
		NOTICE was added.	FIRM03-64	AD
		Text was moved to FIRM03-64.	FIRM03-64A (New page)	AD
		Window of (3) was changed.	FIRM03-67, 120	CH
		Change the "Timeout Error" to "Communication Timeout".	FIRM03-68 MPC01-249C	CH
		Reedited due to adding the NOTICE to FIRM03-80.	FIRM03-80, 81	AD/CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Reedited due to adding the NOTICE. ("If the application suddenly...")	FIRM03-80, 81, 82 (New page)	AD
		Description of *1 was changed.	FIRM03-110	CH
		NOTICE of Step 7. was deleted.	FIRM03-120	DL
		Text and Table 3-9 was moved from FIRM03-120.	FIRM03-121 (New page),	AD
		Step 5 was added.	FIRM04-10	AD
		Flow chart was changed.	FIRM04-60	CH
		Step 4 was added.	FIRM04-90	AD
		CAUTION was moved to FIRM05-10B. Work carried item was added.	FIRM05-10, 10B, 10C (New page)	CH/AD
		Correction of the reference destination	FIRM05-10B, 201	CR
		Work carried item was added.	FIRM05-201, 202, 203 (New page)	AD
		"TC/UR" of "02 : 01" was changed to "remote".	FIRM06-10	CH
		Add Function ID: 00:07	FIRM06-20, 30	AD
		*1 in the "00 : 21" was deleted.	FIRM06-30	DL
		Add Function ID: 02 : 07, 02 : 08, 02 : 14	FIRM06-35, 36, 37, 38 (New page)	AD
		Add Function ID: G00 : 04	FIRM06-40	AD
		Configuration of THEORY OF OPERATION SECTION were changed.	All	AD/CH
		Table title was changed.	THEORY01-03-20	CH
		NAS related to Specifications Table was added.	THEORY01-04-20	AD
		Description of *8 was added.	THEORY01-04-30	AD
		Maximum of Number of Volumes in the specification table was added.	THEORY01-04-60	AD
		Table of "FMD Low-speed format time estimation (When the firmware version is 83-03-21 or later.)" was added.	THEORY02-03-60, 70	AD
		Description of "Cache Residency Manager" in No.9 was deleted.	THEORY02-03-90	DL
		SIM has added a sentence in the case of not output.	THEORY02-03-140	AD
		Table item was changed.	THEORY04-03-20	CH
		NOTE was added.	THEORY04-05-10	AD
		Emulation type list of VSP Fx00 was added.	THEORY04-05-90, 101 (New page), 110, 121 (New page), 130, 141 (New page)	AD
		Maximum number of drives that can be installed was corrected.	THEORY04-06-10	CR
		Figure was added.	THEORY04-06-111 (New page)	AD
		"16GB" was added to "VSP G800" in the Table.	THEORY04-06-160	AD
		Table 4-103 was divided.	THEORY04-06-240, 241 (New page)	CH
		"2.3.5 DBF2 (Flash Module Drive Box)" was added	LOC00-10, 02-80	AD
		Description of the mounting position of the NAS module was added.	LOC02-40, 201, 202	AD
		DB No. was added.	LOC02-80	AD
		NOTE of number 3 to Table was added.	LOC03-30	AD
		"On(both)" in LED of NETWORK PORT was added.	LOC03-92	AD
		The blue flashing LED of NETWORK PORT was added.	LOC03-92	AD
		DB No. was added.	INST01-03-71, 03-03-41, 03-04-710, 720, 04-03-61, 04-04-680, 690	AD
		"(Ensuer that ...)" was added.	INST01-01-30	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Table was changed.	INST01-06-61, 62	CH
		NAS program products was added.	INST01-02-245, 245A (New page), 245B (New page), 249, 249A (New page)	AD
		Figure was changed.	INST02-02-30	CR
		Figure was changed.	INST02-03-50, 80, 140, 180, 03-04-110	CH
		Table was changed.	INST02-03-60	CH
		(12) was changed.	INST02-03-90, 03-04-120	CH
		Step 3 was changed.	INST02-03-100	CH
		"1.1.9 Notes when Handling the Flash Module Drive (FMD)" was added.	INST00-00-10, 01-01-50 through 70 (New page)	AD
		Title of 2.10.1.1 was changed.	INST00-00-30, 02-10-130	CH
		Item 4 was added. Reference destination was added.	INST01-05-10	AD
		Description of the NAS Module was added in the Work-18.	INST02-01-11	AD
		Free space of the HDD was changed.	INST02-01-30, 03-02-40	CH
		The mounting position of the rail was added.	INST02-03-130, 160, 03-04-360, 520, 700 REP02-17-580	AD
		NOTICE was added.	INST02-05-20, 02-08-20, 03-03-110, 04-03-130	AD
		Contents and Figure was changed.	INST02-07-30, 04-04-150 REP02-17-350, 360	CH
		Correction.	INST02-10-100	CR
		Step 6 was changed.	INST03-01-10	CH
		Tabel 3-16 and 3-18 were added.	INST03-01-90, 100, 110	AD
		Window was changed. NOTE was added.	INST03-03-130, 04-03-20, 30	AD/CH
		"Installation/Replace" window was changed.	INST03-04-70, 252, 290, 440, 480, 630, 03-05-30, 60, 100, 130, 170, 200, 03-06-40, 60, 03-07-31, 50, 80, 90, 03-08-40, 110, 170, 190, 310, 330, 03-10-40, 70, 110, 140, 180, 210, 03-12-30, 100, 04-03-30, 150 REP02-04-40, 160, 210, 330, 02-05-40, 02-05-110, 160, 260, 02-06-40, 90, 02-10-31, 60, 110, 140, 02-11-40, 90, 02-12-31, 70, 111, 160, 201, 250, 02-14-31, 80, 02-16-40, 70, 111, 150, 200, 230, 02-20-40, 70, 111, 150, 191, 230, 270, 310, 350, 390, 02-24-40, 80, 02-25-40, 70, 02-26-31, 60, 02-28-40, 70, 02-29-40, 80, 140, 200	CH
		"Step x.." was corrected to "Step x.".	INST03-04-420, 530, 570, 04-04-160, 190, 330, 390, 520, 550, 04-05-60, 120, 04-07-60	CR
		3.6 was changed	INST03-06-10 through 70	CH
		Firmware in Preparations and Prerequisites was added.	INST03-06-10, 20, 30	AD
		Description of (1) and (3) were changed.	INST03-06-10	CH
		Description of RAID6 (6D+2P) was added.	INST03-06-20, 120	AD
		Descriptions were added to (6). (7) was added.	INST03-06-20	AD
		(3) was moved to INST03-06-20. (No.(7))	INST03-06-30	DL/AD
		NOTE was added in the (b).		
		(b) was moved to INST03-06-30.	INST03-06-40	DL
		(5) was added.	INST03-06-60	AD
		Window of (c) through (f) were changed.	INST03-06-110, 120	CH
		Description of (2) was changed.	INST03-06-120	CH
		References was added in the (2).	INST03-06-130	AD
		Reference of 3.8.3 was adde	INST03-08-10	AD
		4.6 was changed.	INST04-06-10 through 50	CH

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REV.	Date	Description	Sheet No.	Code
		Description was added in the Step 1.	INST04-06-10	AD
		References Guide was added in the (2).		
		Prerequisites was deleted.	INST04-06-20	DL/CH
		Description of (7) was changed.		
		Description of (f) was changed.	INST04-06-60	CH
		Figure was changed.	INST04-06-90	CH
		(6) was deleted. ((7) → (6))	INST04-06-100	DL
		"EVS manual migration" was added	INST04-08-530, 531 (New page)	AD
		Reference of 4.8.3 was added.	INST04-08-10	AD
		"Maintenance PC" window was corrected to "MPC" window.	INST04-08-20, 320	CR
		CAUTION was added to 6.2.1	INST06-02-10	AD
		NOTICE and (8) were added	INST07-01-60, 07-02-30	AD
		7.1 was changed	INST07-01-10 through 90	CH
		NOTICE was added	INST07-02-10	AD
		7.3.1 was changed	INST07-03-10 through 90	CH
		7.3.2 was added	INST07-03-100	AD
		"1.5.5.2 Using Flash Player in Windows 8" was deleted.	MPC00-10, 01-211	DL
		"1.8.3 Web Manager Window" was added.	MPC00-20, 01-476 (New page)	AD
		"1.8.4 BALI (Console) Window" was added.	MPC00-20, 01-477 (New page)	AD
		"3.8.3.1 Exporting Audit Log (Maintenance Utility)" and "3.8.3.2 Exporting Audit Log (Web Console)" was added.	MPC00-40, 03-520, 522 (New page)	AD
		"3.28 NAS Module Status" was added.	MPC00-40, 03-900 through 1010 (All new page)	AD
		"4.8 Managing Resource Group" was added.	MPC00-60, 04-900 through 940 (New page)	AD
		"5.13.2.5 Unified Hypervisor Ver." was added.	MPC00-60, 05-1100	AD
		"6. Main Operation Items of NAS Manager" was added.	MPC00-60 to 70, 06-10 through 340 (New page)	AD
		"7. Maintenance CLI" was added.	MPC00-70, 80 (New page), 90 (New page), 07-10 through 420 (All new pages)	AD
		"13. Appendix" was added.	MPC00-90, 13-10 through 20	AD
		*2 and *5 was added to the Web Browser in the Table.	MPC01-10	AD
		Description of *2 was added.	MPC01-10	CH
		Service stop status icon was added.	MPC01-50	AD
		*1 was changed. *2 was added.	MPC01-70	AD/CH
		Correction.	MPC01-110	CR
		PuTTY was added.	MPC01-110, 111	AD
		NOTE was Additional write.	MPC01-120, 240	AD
		Description was added to Step 7.	MPC01-130	AD
		Firmware version 83-03-21 or later case was added.	MPC01-121, 180, 190, 240A	AD
		"Windows 8" was deleted.	MPC01-210	DL
		3.28, Chapter 6 and 7 to Function List was added.	MPC01-223, 224, 225, 226 (New page)	AD
		Available characters was added.	MPC01-244, 244A, 245, 246, 260, 262	AD
		Table was changed.	MPC01-261, 262	CH
		Windows 8 to Windows 8.1 was changed.	MPC01-390	CH
		NOTICE was added in the 1.8.2.1 and 1.8.2.2.	MPC01-460, 470	AD
		NOTE was added. Step 2 was moved to MPC01-471.	MPC01-470, 471	AD/CH
		Description of Internet Explorer was added to Step 1.	MPC01-480	AD

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REV.	Date	Description	Sheet No.	Code
		"The actual IP address and..." was added to the Failure of Network failures.	MPC01-530, 531 (New page)	AD
		Version of Internet Explorer 11 was changed.	MPC01-540	CH
		Description you want to use the latest version of the browser change to.	MPC01-550	CH
		"Maintenance Utility..." was added to the Description in the Table.	MPC01-550	AD
		"Correspondence when the status of ..." was added to the Description in the Table.	MPC01-560 (New page)	AD
		Description of the security was added in the section 2.2.	MPC02-20	AD
		NOTICE was added.	MPC02-40, 03-10	AD
		NAS Platform was added.	MPC02-62, 03-281	AD
		Window in Step 1 was added.	MPC03-10, 20	AD
		Description of text was changed.	MPC03-30	CH
		User Groups to table item was added.	MPC03-100	AD
		Description of "user name" was changed.	MPC03-100, 101	CH
		Step 4 was moved to MPC03-101.		
		Maintenance Utility operation item was added.	MPC03-171	AD
		NOTICE was added.	MPC03-190, 191 (New page), 230, 240, 270, 310,	AD
		*5 was added.	MPC03-231A, 231B	AD
		Set Up Network Settings window was changed.	MPC03-270, 290	CH
		Set Up Network Permissions window was changed.	MPC03-300	CH
		Set Up Network Permissions window was changed.	MPC03-300	CH
		ALM LED → LOC LED	MPC03-552	CH
		Operation menu panel was changed.	MPC03-640, 650, 670, 690, 710, 731, 850, 860, 880	CH
		Step 2 was moved to MPC03-690.	MPC03-700	CH/AD
		Step 5 and Step 6 were moved to MPC03-700.	MPC03-701 (Delet page)	DL
		NOTICE was added.	MPC03-710	AD
		NOTE was added. Step 2 was moved to MPC03-731. Step 5 was moved to MPC03-740	MPC03-730, 731, 740	AD/CH
		Description was added to Step 7. Window was changed.	MPC03-790	AD/CH
		Description was added to Step 4.	MPC03-800	AD
		Related alerts display method was changed.	MPC03-810, 811, 812 (New page)	CH
		Window was changed.	MPC03-810	CH
		Status icon was changed.	MPC03-820, 821, MPC03-822 (New page), 823 (New page)	CH/AD
		Related alerts window display status was added.		
		Description was added in the Normal status.	MPC03-820, 821, 822, 823	AD/CH
		Warning and Failed was changed.	MPC03-820	CH
		References in table were adde.	MPC03-840, 860	AD
		Table was moved to MPC03-840.	MPC03-841 (Delet page)	DL
		NOTE was added.	MPC03-870	AD
		Step 9 was added.	MPC03-900	AD
		*1 was added to the "Accelerated Compression".	MPC04-30	AD
		[NAS Platform] attribute was added.	MPC04-70, 80, 90, 130, 150, 410, 420, 430, 630, 631 (New page), 670	AD
		Window was changed.	MPC04-80, 140, 11-90	CH
		NOTE was added.	MPC04-120, 170, 240, 460, 470, 480, 500, 520	AD
		CAUTION of NAS Platform (System LU) was added.	MPC04-370, 620, 660	AD

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REV.	Date	Description	Sheet No.	Code
		Step 2 was changed.	MPC04-490	CH
		Window display was changed.	MPC04-810	CH
		Description of NAS dump was added.	MPC05-40, 41, 42, (New page) 50, 60, 70, 80	AD
		NAS was added in the Menu of Table 5-2.	MPC05-50	AD
		NOTE was added.	MPC05-60, 150	AD
		(3) was moved from MPC05-80.	MPC05-90	AD
		Flow chart was moved from MPC05-90.	MPC05-91 (New page), 92 (New page)	AD
		Storage location of the dump file was added.	MPC05-110, 120	AD
		Step 10 was added.	MPC05-160	AD
		Title of Table was added.	MPC05-460, 1010, 1020, 1030, 1050, 1070, 1090, 1110, 1111	AD
		Table size was changed.	MPC05-1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1110, 1111, 1120, 1130	CH
		Window was changed.	MPC05-1020, 1030	CH
		Description of NAS in the Table was added.	MPC05-1020, 1030, 1050	AD
		NOTE was added.	MPC05-1020, 1030, 1170	AD
		Table 5-13 was moved to MPC05-1030	MPC05-1040	DL
		5.13.2.6 was moved from MPC05-1100.	MPC05-1110, 1111 (New page)	AD
		Description of NAS in the CAUTION was added.	MPC05-1210	AD/CH
		Window display of Step 2 was changed.		
		OS and browser version was changed.	MPC09-10	CH
		OpenSSL and PuTTY was added.	MPC10-10	AD
		Window size was changed.	MPC11-30, 60, 70, 80, 90, 100, 110, 120	CH
		“---” was added to the Status in the Table.	MPC11-80, 100	AD
		“4.1.2.2 PKC0 = 11 (Channel Board)” was added.	ACC00-10, 04-61 (New page)	AD
		“4.1.5.6 PKC0 = D9, DA, DB, DC (DBF Cable)” was added.	ACC00-10, 20 (New page), 04-590 (New page)	AD
		4.1.3.6/4.1.4/4.1.5.1/4.5.5.6/4.1.5.7/4.5.5.8 in the Table were added.	ACC03-10	AD
		Referenced page numbers was added.	ACC04-61, 81, 82, 90, 130, 131	AD
		Code 19 to 4.1.2.4 was added.	ACC04-80, 81 (New page), 82 (New page), 90	AD
		Code 14 to 4.1.2.5 was added.	ACC04-100, 130, 131	AD
		“A4401...” of ACC code was changed to “A44xx ...”.	ACC04-270, 271 (New page), 280, 281 (New page), 282 (New page), 300, 310	AD/CH
		Table 4-31 was added.	ACC04-310	AD
		Reedited due to adding the subsection 4.1.5.6.	ACC04-571 through 620	AD/CH
		New pages added.	ACC04-571, 572, 581, 582, 591 through 599, 601	AD
		Delete pages.	ACC04-621, 622	DL
		5820200x, 5C00070x, 5C00071x and 5C00072x was added.	ACC04-640	AD
		Description of SOM1097 was added.	SIMRC02-20, 30, 70, 80, 90, 91 (New page)	AD
		307b0x was added	SIMRC02-30	AD
		af4e0x was added	SIMRC02-40	AD
		af80xx was moved from SIMRC02-40.	SIMRC02-50	AD
		“NAS Module error” was added.	SIMRC02-80	AD
		Reference destination to “Audit Log lost” was added.	SIMRC02-90	AD
		“SIM Reference Codes Detected by the Processor for NAS” was added.	SIMRC02-171 (New page)	AD
		e007x2 and e0090x was added.	SIMRC02-171	AD
		Reference was added to Item (14).	SIMRC02-231	AD
		Description of (15) was changed.	SIMRC02-240	CH
		“NAS Module#, NAS Module Port#” was added.	SIMRC02-313 (New page)	AD

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REV.	Date	Description	Sheet No.	Code
		"2.6 Checking the health after restoring the failure" was added.	TRBL00-10, 02-510 through 520 (New page)	AD
		"3.59 Response to a loss of the DKC audit log (SIM = 180000)" was added.	TRBL00-40, 02-431, 03-1320 (New page)	AD
		"3.60 Recovery Procedure When CFM Warning Occurs (SIM = 30750x)" was added.	TRBL00-40, 02-431, 432, 03-1330 (New page)	AD
		"20. NAS Module Troubleshooting" was added.	TRBL00-80, 02-441, 432, 500, 20-10 through 350 (New page)	AD
		Note was added.	TRBL02-10	AD
		"WARNING LED on light up?" of flow chart was changed to the "WARNING LED on Blinking?".	TRBL02-21	CR
		Presence or absence of the "NAS Module" in the flow chart was added.	TRBL02-21	AD
		cevice → device, wquipment → equipment	TRBL02-60	CR
		NAS processing was added.	TRBL02-70, 71, 110, 130, 190, 290, 400	AD
		"5 minutes" of the contents of flow chart was changed to the "1 minutes".	TRBL02-91	CH
		"Warning light up" of flow chart was corrected to the "WARNING LED light up".	TRBL02-120	CR
		Yes was added in "Normally ended?".	TRBL02-180	AD
		Flowchart was changed.	TRBL02-320, 330, 500, 05-20, 06-40, 80, 100, 110, 08-20, 09-30	CH
		*1 was changed. *3 was added.	TRBL02-450	AD/CH
		Correction.	TRBL02-490, 500	CR
		"*4: *4: When..." was corrected to "*4: When...".	TRBL03-30	CR
		SVP was changed to Maintenance PC.	TRBL03-650, 651, 652, 653, 670, 680, 681, 682, 690, 711, 712, 721, 722, 723, 724, 725, 726, 727, 728, 731, 740, 741, 742	CH
		Coping Method of TRRMIS002009 was changed.	TRBL03-691	CH
		Log output of normal and abnormal were changed.	TRBL03-710	CH
		TRSTNA000012 was deleted.	TRBL03-712	DL
		TRSTNA001007 and TRSTNA001008 were moved to TRBL03-712.	TRBL03-713 (Delete page)	DL
		"Gather dump files" was corrected to "gather dump files".	TRBL03-750	CR
		Description of "Normal Dump" in the Table was added.	TRBL03-1010, 1011 (New page)	AD
		Description of the NAS was added in the flow chart.	TRBL03-1130	AD
		Occurrence contents of the pinned track was changed.	TRBL04-150	CH
		Description of Recovery method was changed.	TRBL04-160	CH
		Description methof of Cause was changed.	TRBL04-170, 190	CH
		"How to recover" was changed to "Recovery Method".	TRBL04-180	CH
		System Option Mode 833 was added to recovery method of External VOL Write Error.	TRBL04-200, 1060	AD
		*5 was added.	TRBL04-1070	AD
		Description was changed to "Hitachi Universal Volume Manager User Guide"	TRBL04-1080, 1100	CH
		Flow of flow chart was changed.	TRBL10-90	CH
		"VSP G1000 / HUS-VM" → "VSP / HUS VM / VSP G1000, VSP Gx00"	TRBL11-20	CH

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REV.	Date	Description	Sheet No.	Code
		Description of [Procedure] was changed.	TRBL11-40	CH
		Reedited due to adding "Command Control Interface (CCI)".	TRBL18-20, 21, 22 (New page), 30, 31 (New page),	AD/CH
		Description of "Command Control Interface (CCI)" was added.	TRBL18-50, 60, 70, 71 (New page), 170	AD
		Recovery procedure 2 was moved to TRBL18-170.	TRBL18-180	DL
		"1.1.10 Notes when Handling the Flash Module (FMD)" was added.	REP00-10, 01-01-50 through 70 (New page)	AD
		"2.8.2 Preventive Replacement of a BKM" was added.	REP00-20, 30, 40 (New page), 02-08-320, 02-09-10, 60 through 110	AD
		Descriptions of Subsection "2.29 NAS Module" were added.	REP00-30, 01-06-80, 02-29-10 through 290 (Nes pages)	AD
		Description of NAS Module was added.	REP01-02-10	AD
		Preventive drive replacement was changed.	REP01-03-170, 240	CH
		"RNAS", "RND1" and "RSFP" was added.	REP01-06-80	AD
		Table was changed.	REP02-01-61, 62	CH
		"Notes when replacing drives" was added.	REP02-03-10	AD
		Window was changed. NOTE was added.	REP02-03-20, 30, 31 (New page), 220, 230	AD/CH
		NOTICE was added.	REP02-03-110, 02-17-770	AD
		NOTE was changed.	REP02-03-210	CH
		NOTE was added.	REP02-03-220, 02-04-170, 340, 02-10-70, 150, 02-12-80, 170, 260, 02-14-90, 100 (New page), 02-24-90, 02-25-80, 02-26-70, 02-28-80	AD
		Description of "EVS manual migration" was added.	REP02-04-180, 350, 02-05-130, 270, 02-11-10, 100	AD
		Preventive maintenance of NAS was added.	REP02-04-180, 02-05-130, 02-29-10, 110	AD
		Remove/Install of Cache Flash Memory was changed.	REP02-04-290	CH
		Window was changed.	REP02-07-20, 60, 02-08-90, 150, 250, 02-09-20, 50	CH
		NAS Module was added.	REP02-11-10, 30, 40	AD
		Figure was changed.	REP02-15-280, 02-29-20, 30, 90, 120, 210, 240, 290	CH
		Remove/Install of NAS Module was added.	REP02-17-191 (New page), 192 (New page), 232 (New page)	AD
		Correction.	REP02-17-430, 02-29-20, 90, 210	CR
		Description of (1) was changed.	REP02-20-150	CH
		NOTE was Additional write.	REP02-21-10	AD
		References of 2.29 were adde.	REP02-29-10	AD
		Chapter 1 to change the MESSAGE SECTION.	MSG00-10, 01-10	CH
		"4. NAS Manager Event Log ID" was added.	MSG00-10, 04-10 through 610 (New page), 05-10	AD
		ID0246, ID3141, ID3709, ID4563, ID4570, ID4571, ID4571, ID4574, ID4575, ID4578, ID4579, ID4580 was changed.	MSG03-60, 600, 770, 1220, 1230, 1240, 1250, 1260, 1270, 1280	CH
		ID4582, ID4583, ID4584, ID4585, ID4586, ID4598, ID4599 was added.	MSG03-1260, 1270, 1280 (New page), 1290 (New page)	AD
		"2.18 DBF2" was added.	PARTS00-10, 01-10, 02-460 through 480 (New page)	AD
		NAS Module was added.	PARTS02-90, 100, 101 (New page), 110, 120, 130, 140, 141 (New page), 150, 160, 03-20, 40, 41 (New page), 50, 70, 80, 90, 91, 92	AD
		Part number on the DRIVE BOX was added.	PARTS02-410	AD
		The term was added.	GLOSSARY01-10, 20, 30, 40, 50 ,60 (New page)	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
4.5	Aug.25.2016	Rev.4.4 → Rev.4.5	i	CH
		Procedure for Checking Firmware Version was changed.	START01-10 FIRM00-10, 03-30, 120, 130, 150, 170 (New page), 180 (New page), 190 (New page), 04-10, 20, 90, 05-180, 400 INST06-02-250 MPC03-30, 841 REP02-03-120	AD/CH
		NOTE of the drive format time was changed.	THEORY02-04-61	CH
		Correction.	LOC03-40, 60, 100	CR
		HDD firmware version might not be consistent.	INST01-05-10 TRBL03-60, 90, 1080	AD
		Note at the time of installation directory change was added.	MPC01-130 REP02-21-30	AD
		Error name was changed. (cf11xx)	SIM-RC02-30	CH
		"3.59 Recovery Procedure for Differential Area Blocking (SIM = 4d1xyy)" was added.	TRBL00-40, 02-431, 03-1320 (New page), 03-1330 (New page)	AD
		"3.60 Recovery Procedure for CTL Blocking (SIM = cf880x)" was added.	TRBL00-40, TRBL02-431, 432, TRBL03-1360 through 1390 (New page)	AD
		Flowchart was changed.	TRBL02-181, 182 (New page), 183 (New page), TRBL03-1300	CH
		MJNL full at the time of the recovery procedure.	TRBL07-90, 100	CH
4.4	July.12.2016	Rev.4.3 → Rev.4.4	i	CH
4.3	May.17.2016	Rev.4.2 → Rev.4.3	i	CH
		NOTICE was added.	FIRM03-40	AD
		Location name was correction.	LOC02-20, 30, 40, 50, 90, 140, 180, 03-40, 110, 120 REP02-10-40, 02-11-50, 02-12-40, 120, 210, 02-14-40, 02-15-150, 160, 210, 220, 230, 270, 280, 02-16-50, 60, 120, 130, 140, 210, 220, 02-20-120, 200, 280, 290, 360, 370, 02-27-30	CR
4.2	Mar.23.2016	Rev.4.1 → Rev.4.2	i	CH
		Description of HEX in the Table was corrected.	SIMRC02-80, 180, 310, 311	CR
		" → " in under the [Recurrence...] was moved.	TRBL03-921	CH
		Description of No in flow chart was corrected.	TRBL03-1240	CR
		"SIM=dc6yyy" was added in the flow chart.	TRBL07-30	AD
		" ② " was corrected "STRT".	TRBL08-44	CR
		Yes and No in flow chart was corrected.	TRBL10-20	CR
		References pages in ① and ② were added.	TRBL11-110	AD
4.1	Feb.19.2016	Rev.4 → Rev.4.1	i	CH
		*5 was added.	OPTVER01-20, 40	AD
		Change Function ID: 01:01, 01:04	FIRM06-31	CH
		Add Function ID: 02:13, 07:04	FIRM06-35, 36, 37 (New page)	AD
		Correction.	MPC01-10	CR
		Flowchart was changed.	TRBL03-1010	CH
4	Jan.28.2016	REV.3 → REV.4	i	CH
		Table 1-3 was added.	vi	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Correction	SAFETY01-30, 02-20, 03-10 START01-10 OPTVER01-50 THEORY01-01-10, 02-50, 02-01-40, 50, 120, 130 LOC02-20, 30, 03-120, 170, 234, 235 INST01-01-10, 02-02-10, 04-10, 08-150, 160-190, 03-02-50, 05-50, 70, 120, 140, 190, 200, 04-10-60, 70, 05-01-10 REP01-01-10, 02-08-340, 12-60, 150, 240, 13-50, 110, 170, 14-70, 15-150, 151, 300, 350, 360, 17-231, 301, 20-190, 260, 340, 23-50, 90, 110, 120, 24-70, 25-60, 26-50, 27-40 PARTS03-60-90	CR
		Encryption Controller Board support	SAFETY02-30 OPTVER01-10, 40, 50, 60 THEORY02-01-120, 02-02-30, 02-15-10, 30 INST00-00-40, 01-02-10, 11, 20, 21, 60, 100, 03-12-10 through 160 (New page) MPC03-340, 350 REP02-04-50 PARTS02-20, 30, 60, 70, 03-50, 60, 70, 80, 90, 91, 92	AD
		Description of the target firmware was added.	OPTVER01-10 FIRM01-10, 03-120, 130, 150, 05-17 THEORY01-01-10 INST01-01-10 MPC01-10, 03-841 DIAG01-10 SIMRC01-10 REP01-01-10	AD/CH
		Program product form name that has been supported by the AFA was added.	OPTVER01-50, 60, 70 (New page) INST01-241, 244, 245, 246, 247, 248 through 330 (New pages), 05-01-10 MPC03-330, 340, 341 (New page), 360	AD
		"3.3.3" was added.	FIRM00-10, 03-160 (New page)	AD
		Items was added.	FIRM03-10, 20, 30	AD
		"Expander" in the Table was added.	FIRM03-40	AD
		Flowchart was changed.	FIRM04-60, 81 (New page)	CH
		*1 was added.	FIRM04-70	AD
		Chapter 5 page order changes.	FIRM05-10, 10A (New page), 10B (New page), 11 to 150, 180, 181, 182 (New page), 190 to 340	AD/CH
		Step 5 and Step 6 were added.	FIRM05-170, 171 (New page), 391, 392 (New page)	AD
		NOTICE was added to Step 23.	FIRM05-290	AD
		Step 4 and Step 5 were added.	FIRM05-400	AD
		1086 to the system option mode was added.	FIRM05-420	AD
		"MPC" has been corrected to "Maintenance PC"	FIRM05-430 INST01-02-220, 06-03-10 MPC01-50, 80, 370, 450, 490, 500, 501, 03-670, 05-30, 180, 08-10 TRBL02-411, 03-630, 760, 770, 780, 790, 800, 04-150, 280, 300, 320, 350, 390, 450, 460, 490, 520, 550, 580, 730, 740, 750, 760, 780, 820, 830, 840, 910, 920, 930, 940, 1000, 1150, 07-140, 10-60, 18-80	CR

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REV.	Date	Description	Sheet No.	Code
		Reedited due to adding function ID. Add Function ID: 00:21, 00:23, 00:26, 01:01, 01:04, 01:06, 01:09, 01:12, 01:24, 02:00, 02:02, 02:26, 03:13, 07:01, 15:07 HP was changed to HPE.	FIRM06-30, 31, 32, 33 through 36 (New page) THEORY02-01-30 TRBL04-240 PARTS03-110	AD/CH CH
		fiber was changed to fibre.	THEORY02-01-221, 230 INST02-10-120	CR
		Drive type name was added.	THEORY02-01-260, 270, 02-13-180 INST01-02-210, 220, 230 PARTS03-80, 90	AD
		Noise Level was added.	THEORY02-02-70, 80, 90	AD
		Item 2 was moved from THEORY02-02-90.	THEORY02-02-100	AD
		"When the parity group setting..." was added.	THEORY02-04-80	AD
		NOTE was added.	THEORY02-13-190	AD
		Descriptions of Item 3 were added.	THEORY02-13-270, 280, 281 through 282 (New pages)	AD
		Description of references was added in the function of ALM LED, ALARM LED, READY LED, and LOCATE LED.	LOC03-30, 110, 130, 140, 150, 160, 180, 190, 200, 210, 211 (New page), 220, 230	AD
		Correction.	LOC02-170, 190, 200, LOC03-91	CR
		Function of STATUS LED was changed.	LOC03-100	CH
		Figure of the Front Bezel was changed.	LOC03-170 INST01-04-60, 90, 02-12-10 MPC03-551 REP02-02-60, 90, 02-18-10, 50, 60, 80 PERIOD02-20 PARTS02-170, 210, 241, 250, 290, 321, 330, 360, 390, 420	CH
		NO.13-5 was moved to LOC03-211.	LOC03-210	DL
		"1.5.2.1 Planned Shutdown of the Storage System that GAD Uses" was added.	INST00-00-10, 01-05-50 through 90 (New page)	AD
		"Hitachi Encryption Key" in the Table was added.	INST01-02-241	AD
		"VSP Fxxx" was added to description of [System Selection] in the table.	INST01-06-61 MPC01-244A, 261 REP02-01-61	AD
		Red line to the controller board was added.	INST02-05-70, 80, 81 (New page), 160, 02-08-80, 90, 180, 03-07- 60, 100, 230, 290, 04-07-120, 170, 230, 280, 440, 500, 590, 650 REP02-04-60, 150, 260, 300, 02-05-60, 100, 200, 230, 02-06-60, 80, 02-17-40, 180, 02-23-40, 80, 90, 02-26-50	CH
		"Example: CBLM + DBL x 3" was added. *1 was deleted.	INST02-10-270	AD/DL
		Note of DB60 CMA cable routing was added.	INST02-11-20, 30, 40 REP02-17-650, 660, 670	AD
		Window of Step 3 was changed.	INST02-18-10	CH
		Backup procedure of the encryption key was added.	INST03-03-150, 160 (New page), 03-06-90, 100, 04-03- 150, 151, 04-06-61 REP02-03-40, 220, 02-04-170, 171 (New page), 02-14- 80, 90	AD
		Steps to click the refresh button was deleted.	INST03-03-150, 03-04-260, 450, 640, 03-05-60, 130, 200, 03-06-80, 90, 03-07-110, 310, 330, 03-08-31, 70, 03-09-40, 70, 110, 140, 180, 210, 03-11-100, 04-03-150, 04-04-70, 240, 440, 04-05-40, 100, 160, 04-06-40, 04-08-31, 60, 04-10-30	DL

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REV.	Date	Description	Sheet No.	Code
		Steps to Attachment / Removal Procedure of DB label was deleted.	INST03-04-190, 420, 590, 03-04-141, 511	DL
		And swapping the order of the Step 6 and Step 7.	INST03-07-120	CH
		And swapping the order of the Step 7 and Step 8.	INST03-07-340	CH
		NOTE was added. ("When the firmware version is 83-03-01 or later, ...")	INST03-03-140, 03-04-260, 450, 640, 03-05-30, 60, 130, 200, 03-06-30, 04-03-150, 160, 04-04-70, 240, 440, 04-05-30, 90, 150, 04-06-30, 04-10-20 REP02-03-30, 02-04-30, 200, 02-05-30, 150, 02-08-260, 02-10-30, 100, 02-11-30, 02-12-30, 110, 200, 02-14-30, 02-16-30, 110, 190, 02-20-30, 110, 190, 270, 350, 02-24-30, 02-25-30, 02-26-30, 02-28-30	AD
		NOTICE of encryption was added.	INST04-01-10	AD
		No.5 through No.7 were moved from INST04-01-10.	INST04-01-10 (New page)	AD
		Flow chart was corrected.	INST06-01-20	CR
		Step 2 was added.	INST06-02-10	AD
		Window was changed.	INST06-02-30	CH
		NOTE was corrected.	INST06-02-40, 80	CR
		Step (17) was changed.	INST06-02-90	CH
		Step (8) was corrected. NOTE to Step (9) was added.	INST06-02-140	AD/CR
		Step (20) and (21) was corrected.	INST06-02-180	CR
		(30) and (31) was moved from INST06-02-220.	INST06-02-210	AD
		(32) was moved from INST06-02-230.	INST06-02-220	AD
		Step 4 was added.	INST06-02-230	AD
		Title of No. was added.	INST06-02-240	AD
		Step 5 and Step 6 were added.	INST06-02-241 (New page), 242 (New page)	AD
		Subsection 1.8.2.8 was added.	MPC00-20, 01-476 (New page)	AD
		Subsection 3.3.6 was added.	MPC00-20, 03-171 (New page)	AD
		Subsection 3.7.4.4 was added.	MPC00-30, 03-370	AD
		Subsection 5.2 was changed.	MPC00-50, 05-40	CH
		Subsection 10.3 through 10.7 were added.	MPC00-70, 10-40 through 80 (All new pages)	AD
		Table was changed. NOTICE was added.	MPC01-110, 111 (New page)	AD/CH
		Description was added in the Step 7.	MPC01-130	AD
		New Installation was added.	MPC01-141, 260	AD
		Step 15 and 24 was added.	MPC01-235, 236, 237, 249D	AD
		Description was added to Step 2.	MPC01-291	AD/DL
		Step 3 was deleted.		
		Description of Status icon were changed.	MPC01-301	CH
		Window was changed. NOTE was added.	MPC01-302	AD
		Step 5 was deleted.	MPC01-430	DL
		Description was added to the Help button in the Table.	MPC01-472	AD
		*1 and table were added.	MPC02-20	AD
		Symbol that can not be used in domain name was changed.	MPC02-62, 03-281	CH
		Reedited due to adding role.	MPC03-90, 100, 101 (New page)	AD/CH
		"nondisruptive migration" and "All Flash Array" to the P.P. were added.	MPC03-330, 350 SIMRC02-310	AD
		"All Flash Array is ..." of NOTICE was added.	MPC03-340	AD
		Description of licensed capacity types was added.	MPC03-350	AD
		Software list table was moved from MPC03-350.	MPC03-360	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Step 4. through Step 11. was moved from MPC03-520.	MPC03-511 (New page)	AD
		Procedure to export the audit log was changed.	MPC03-520, 521 (New page)	AD/CH
		Description was added in the Step 2.	MPC03-790	AD
		Referenced was added in the Step 3.	MPC03-800	AD/CH
		Window of Step 3 was changed.		
		Acquisition procedure of system dump was changed.	MPC03-880, 890 (New page)	AD/CH
		Description of "Encryption" in the Table was changed.	MPC04-10, 30	CH
		Virtualization Mode was changed to Accelerated Compression.	MPC04-20, 30, 270 REP01-06-20	CH
		NOTE was added, and Window was changed.	MPC04-20, 270	AD/CH
		Virtualization Mode was added.	MPC04-30	AD
		[3] was added.	MPC05-161 (New page)	AD
		Attribute of volume was added to the description in the Table.	MPC05-1140, 1150, 1160	AD
		"Logical Device in the Table was added.	MPC05-1150	AD
		Add port (iSCSI) to Table.	MPC06-30, 40	AD
		Description was added in the NOTICE.	MPC08-20	AD
		Descriptin of version 83-03-01 was added.	MPC10-10, 20	AD
		Descriptin was moved from MPC10-20.	MPC10-21 (New page)	AD
		Descriptin of references was added.	MPC10-30	AD
		"Hard adapter mode" was corrected to "Hard adap mode".	DIAG06-590	CR
		Page of 4.1.1.2 was changed.	ACC00-10	CH
		Table 4-2 was moved from ACC04-30.	ACC04-20	AD
		4.1.1.2 was moved from ACC04-20.	ACC04-30, 31 (New page)	AD
		Reedited due to adding the Table 4-4 was added.		
		"41300****" was changed to "413xx****". Table 4-13 was added.	ACC04-70	AD
		Drvie types were added. (DKS5H-J600SS, DKS5H-J1R2SS, DKS5H-J1R8SS, SLB5C-M200SS, SLB5C-M400SS)	ACC04-140, 200, 320	AD
		Description of refernces in the *2 was changed.	ACC04-140, 200, 260, 320	CH
		21a6xx, 21a7xx, 21a9xx, 307a0x, ffe600, ef7xxx and 2181xx were deleted.	SIMRC02-20, 30, 60, 70, 110	DL
		Change error of 3c9500 from CHB/DKB to CHB/DKB/CTL.	SIMRC02-30	CH
		"Cache correctable error" was added.	SIMRC02-50	AD
		Reedited due by moving the ef4xyy, efexxx.	SIMRC02-70, 80	CH
		Error name in Table 2-6 and 2-7 was added.	SIMRC02-130, 140, 141 (New page)	AD
		(19) was deleted. (No. changes followed.)	SIMRC02-240	DL
		Correction	SIMRC02-240, 280	CR
		"Failed Part#" was added.	SIMRC02-312	AD
		Description of B'00' of "Bit 4-5" in the (15) was changed.	SIMRC03-80	CH
		Descriptions of "Byte27=8E(CHK1)" were added/changed.	SSBLOG05-750, 790, 800, 820, 831, 832, 850, 900, 1040, 1070, 1080, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1440, 1480, 1520, 1560, 1600, 1790, 1900, 1901, 1902, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1914, 1915, 1916 (New page), 1917 (New page)	AD/CH

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REV.	Date	Description	Sheet No.	Code
		Title of Subsection 2.2.16 was changed.	TRBL00-10	CH
		Subsection 3.57 was added.	TRBL00-40, 03-1290 (New page), 1300 (New page)	AD
		Subsection 7.5 and 18.3 were added.	TRBL00-50, 70	AD
		Discription of "SIM = 604xxx, 605xxx, 606xxx" was added.	TRBL00-50, 08-40, 41 to 44 (New page)	AD
		Subsection 10.10 was added.	TRBL00-50, 10-150, 160	AD
		Discription of "SIM = 62b00" was added.	TRBL00-60, 02-431, 10-80	AD
		Flow chart was changed.	TRBL02-20, 30, 40, 50, 60, 80, 90	CH
		Description of replace CTL was changed in flow ③.	TRBL02-190	CH
		Description of the [Drive status] was added in the flow chart.	TRBL02-220	AD
		Title and flow chart of Subsection 2.2.16 were changed.	TRBL02-412, 413 (New page)	CH/AD
		Reedited due to adding. Adding code: 3073xx, 50bxxy, 50cxxy, 50dxyy", 505xyy, 508xy, 604xxx, 605xxx, 606xxx, 62b00	TRBL02-430, 431, 432	AD/CH
		Description of Pool VOL in flow was added.	TRBL03-260, 10-90	AD
		Description of "Are CLPR of the DP-VOL···?" in flow was changed.	TRBL03-551, 572	CH
		② was added, and moved of folw. ("SSB=9b3c")	TRBL03-551, 552 (New page), 572	AD
		Description of "copy back terminate abnormally" was added in the flow chart.	TRBL03-570	AD
		Web Application Server was added in Storage Device List table.	TRBL03-670	AD
		Storage Navigator List was moved to TRBL03-670.	TRBL03-671	AD
		Reedited due to Troubleshooting code adding. (TRBL03-670 through 03-811)	TRBL03-672, 673, 674, 675, 676, 677, 678, 679, 681, 682, 683, 684, 685, 686, 687, 688, 689 (All delet pages)	DL
			TRBL03-670, 671, 680, 681, 682, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810	CH
			TRBL03-691, 701, 711, 712, 713, 721, 722, 723, 724, 725, 726, 727, 731, 741, 742, 761, 762, 763, 764, 781, 782, 783, 791, 811 (All new pages)	AD
		Add Troubleshooting code: TRSDLS000013, TRMAAS000001, TRMAAS000002, TRMAAS000003, TRMAAS000004, TRMAAS000005, TRMAAS000006, TRMAAS000007, TRRMIS000020, TRRMIS001008, TRRMIS001009, TRRMIS001998, TRRMIS001999, TRRMIS002513, TRRMIS002514, TRRMIS002515	TRBL03-682, 690, 691, 701, 702, 715, 716, 717	AD
		Description of other failures was added to the text.	TRBL03-860	AD
		No.9 was added.	TRBL03-861	AD
		Reedited due to adding. (Description of "Is any of cf10xx ···" in TRBL03-880 was added.)	TRBL03-870, 880, 890, 891 (New page), 900, 910, 920, 921, 922	AD/CH
		*2 was added.	TRBL03-1010	AD
		*1 was deleted.	TRBL04-250	DL
		Descriptions of Subsection 7.5 were added.	TRBL07-180 through 510 (New page)	AD
		SIM code in the flow chart was deleted.	TRBL10-70, 80, 90, 91	DL
		Description of SIM RC SECTION in Item 3 was added. Item 4 was deleted.	TRBL12-30	AD/DL
		Flowchart was changed.	TRBL18-20, 21 (New page), 30, 40, 110	CH
		Reedited due to changing "Recovery Action".	TRBL18-140 through 160	CH

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REV.	Date	Description	Sheet No.	Code
		Descriptions of Subsection 18.3 were added.	TRBL18-190 through 470 (All New pages)	AD
		Description of the "Copy destination block" was added in [Case 7].	REP01-03-70	AD
		Description changed and figure added of [Case 9] were added.	REP01-03-80	CH/AD
		[Case 10] was moved from REP01-03-80.	REP01-03-81 (New page)	AD
		"S" was added to the Restoration of [Case 12].	REP01-03-100	AD
		Descriptin of "first drive" of [Case 13.1] were deleted.	REP01-03-110	DL
		"Eg" was added.	REP01-06-20, 30	AD/CH
		NOTICE was added.	REP01-06-50	AD
		Move the contents of the Channel Board Box to the "Other parts of DKC".	REP01-06-60, 80	AD/DL
		Reference item of check of [Status] was added.	REP02-03-20, 02-07-20, 02-08-90, 02-09-20, 02-10-20, 90, 02-11-20, 02-12-20, 100, 190, 02-13-20, 80, 140, 02-14-20, 02-15-80, 320, 02-20-20, 100, 180, 260, 340, 02-24-20, 02-25-20, 02-26-20, 02-27-20, 02-28-20	AD
		"Blocked" of (9) was changed to "Blocked" ot "Failed".	REP02-02-40	CH
		NOTE was added.	REP02-04-10, 180, 02-05-10, 130, 02-06-10, 02-11-10, 02-12-10, 90, 02-20-10, 90, 02-24-10, 02-25-10, 02-26-10, 02-28-10	AD
		"... test procedure" of (2) was corrected to "... [Status]".	REP02-04-20, 190, 02-05-20, 140, 02-06-20	CR
		Reedited due to moving the (3).	REP02-10-100, 110, 120, 02-11-30, 40, 02-12-30, 31 (New page), 110, 111 (New page), 200, 201 (New page), 02-13-81 (New page), 150, 160, 02-14-30, 31 (New page), 02-15-321 (New page), 02-16-30, 40, 50, 110, 111 (New page), 190, 200, 210, 02-20-110, 111 (New page), 02-20-190, 191 (New page), 02-24-30, 40, 50, 02-25-30, 40, 50, 02-26-30, 31 (New page), 02-27-21 (New page), 02-28-30, 40, 50	CH/AD
		Description of error status was added.	REP02-15-20, 140, 200, 260, 02-16-20, 100, 180	AD
		Description of the "Normal" status of NOTE was deleted.	REP02-15-51, 60, 180, 240, 300,	DL
		NOTICE was added. (Even if the ALM LED ...)	REP02-15-150, 210, 270, REP02-16-20, 100, 180	AD
		Description of LED was changed in the NOTE.	REP02-15-170, 230, 290, 02-16-80, 160, 240	CH
		CONTROLLER BOARD (Encryption) was added.	PARTS02-41, 42, 81, 82	AD
		Description of FMD Built-in Battery was changed.	PARTS03-120	CH
		Glossary was added.	GLOSSARY01-20, 30, 40, 50	AD/CH
		"MPC" and "Maintenance PC" was changed.		

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
3.4	Feb.12.2016	REV.3.3 → REV.3.4	i	CH
		*4 was added.	MPC01-10	AD
		Error level of "CFM patrol check error" has been changed to "Moderate".	SIMRC02-40	CH
		Flow chart was changed.	TRBL16-10, 17-10	CH
3.3	Jan.6.2016	REV.3.2 → REV.3.3	i	CH
		CAUTION was changed.	MPC08-20	CH
3.2	Dec.14.2015	REV.3.1 → REV.3.2	i	CH
		Step 11, 19 and 20 was added.	FIRM03-62, 62A (New page), 69	AD/CH
		Step 12 was changed.		
		Step 3 was added.	FIRM04-10	AD
		*1 and *2 were moved from FIRM04-50.	FIRM04-41 (New page),	AD
		Recovery procedure of [C] was added.	FIRM04-50	AD
		[C] → [D]	FIRM04-60	CH
		1 line added to the description of the table	MPC01-244, 244A	AD
		Step 22 was added.	MPC01-249D	AD
		How to acquire system dumps was added.	MPC03-880	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
3.1	Nov.30.2015	REV.3 → REV.3.1	i	CH
		*2 was added.	FIRM03-40	AD
		Step 2 was changed. Step 3 was deleted.	FIRM03-50	CH/DL
		Reference number of MAINTENANCE PC SECTION was changed.	FIRM03-69A INST02-01-11, 06-01-20, 06-02-10, 06-03-10 TRBL03-630 REP02-21-30	CH
		Step (j) was changed. Move Step (l) from FIRM05-16A.	FIRM05-16, 16A (New page)	AD/CH
		CHB minimum installable number of VSP G800 was changed.	THEORY02-01-220	CH
		Function of the LAM-RST switch was added.	LOC03-50, 70	AD
		"1.6.4 Stopping Web Console" was added.	INST00-00-10, 01-06-100	AD
		"6.1 Flow of New Installation" was added. Chapter 6 page order changes.	INST00-00-50, 06-01-10 to 06-03-20	AD/CH
		"1.5.1" was added.	MPC00-10, 01-90	AD
		Change "1.5.4.2" from MPC01-220 to MPC01-211. "1.5.5 Precautions related to the use of the virus detection program" was added.	MPC00-10, 01-211, 220 (New page)	AD
		Reedited due to adding the "1.5.1".	MPC01-90, 100, 101 (New page)	CH/AD
		Step 1 was moved to MPC01-120.	MPC01-110	DL
		Step 1 was changed. Step 2 was added.	MPC01-120	AD/CH
		Step 5 was moved from MPC01-120.	MPC01-121 (New page)	AD
		Step 6 was moved to MPC01-121.	MPC01-130	DL
		The maximum number of storage systems that can be registered in the Storage Device List was added.	MPC01-230	AD
		Step 2 was changed. Step 3 was deleted.	MPC01-240	CH/DL
		Description of Software Selection was changed.	MPC01-260	CH
		"1.6.2.3 Stopping Web Console" was added.	MPC01-291	AD
		Reedited due to adding the description of IIS/FTP server.	MPC01-390, 391 (New page)	AD
		Description of NOTE was changed.	MPC01-400	CH
		NOTE was added.	MPC01-474, 05-910	AD
		The "Parts frame color" and "state icon" in the table was added.	MPC03-820, 830 (New page)	AD
		Step 2 was changed. Move Step 3 from MPC05-41.	MPC05-40, 41 (New page)	AD/CH
		Code changes Byte28.	SSBLOG05-800, 1240, 1280, 1480, 1520, 1560, 1600, 1640, 1680, 1720, 1760, 1800	AD/DL
		Byte28 = 65 was added. Move SSBLOG05-2291 from SSBLOG05-2295.	SSBLOG05-2291 to 2294 (New page), 2295	AD/CH
		"3.57 Recovery Procedure When the Panel Switch Warning (SIM = af4d00)" was added.	TRBL00-40, 02-431, 03-1290 (New page)	AD
		Description of the CBSS/CBSL was added in the flow chart.	TRBL02-181	AD
		Failure of No.5 and No.6 was changed.	TRBL03-650	CH
		No.6 was moved to TRBL03-650.	TRBL03-660	CH
		"2.1.4 Stopping Web Console" was added.	REP00-10, 02-01-91	AD
		Step (2) and (3) was changed. Step (4) was deleted.	REP02-21-10	CH/DL

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
3	Oct.30.2015	REV.2.3a → REV.3	i	CH
		Description added.	iii	AD
		Added the contents of the EMI test.	iii	AD
		Correction.	v	CR
		All Flash Model was added.	v, vi (New page), vii THEORY02-01-10, 02-02-10, 21 INST03-03-10, 03-04-10	AD
		Description of Channel Board Box was added.	SAFETY00-10, 02-30, 40, 03-200, 210 OPTVER01-20 THEORY02-01-61 (New page), 110, 220, 241 (New page), 02-02-20, 50, 60, 70, 80, 02-03-10, 21, 30, 02-08-10 LOC00-10, 01-10, 11 (New page), 02-41 (New page), 02-210 (New page), 03-80, 91 (New page), 231 (New page) INST00-00-20, 30, 01-02-130, 01-03-30, 02-03-170, 180, 02-04-10, 20, 02-05-160, 170, 180, 190, 02-06-10, 02-07-90, 02-08-180, 190, 200, 210, 02-10-51, 91, 260	AD
		"3.12 Channel Board (FC/iSCSI).", "3.13 Disk Board" and "3.14 ENC" was deleted.	SAFETY00-10, 03-160 to 210 (Delete page)	DL
		Reedited due to adding "CAUTION Statements" "•Dropping the Controller Board may ..." "•Dropping the Storage Sysem may ..." "•Be careful of a hot part: ..."	SAFETY02-30, 40, 50, 51	AD/CH
		New pages added.	SAFETY02-51, 03-140, 150	AD
		The three add a Symbol Mark.	SAFETY02-60	AD
		WEEE mark from in the figure was deleted.	SAFETY03-50, 60, 80, 90, 100, 110, 120, 130	DL
		NF2000 warning labels were added.	SAFETY03-110	AD
		"When mountng the ..." was changed	OPTVER01-10	CH
		"Controller Box" to the "Controller Chassis" was changed.	OPTVER01-10	CH
		PCIe cable was added.	OPTVER01-20	AD
		PCIe Channel Board was added.	OPTVER01-30	AD
		*3 was added.	OPTVER01-40	AD
		NF2000 corresponding drives were added.	OPTVER01-40 THEORY02-01-270, 280, 02-02-60 to 80, 02-12-20, 02-13-180, 190 to 260 INST01-02-50, 90, 130, 210, 220, 230, 03-03-20, 04-03-40 REP01-06-30, 40, 41, 02-03-50 PARTS02-390, 410, 03-90	AD
		"Global-Active Device" to the "global-active device" was changed.	OPTVER01-60	CH
		NOTICE was added.	FIRM02-10, 03-50, 100	AD
		CAUTION was added.	FIRM03-50 MPC01-110, 120, 170, 240, 240A REP02-21-10, 20	AD
		Move Step 4 from FIRM03-50.	FIRM03-51 (New page)	AD
		Window was changed.	FIRM03-62, 63, 150, 350, 360 INST06-01-180 MPC01-243, 244, 244A, 245	CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		NOTE was added.	FIRM03-64, 65, 70	AD
		NOTE to (b) was added.	FIRM03-80, 90	AD
		Table was changed.	FIRM03-120	CH
		NOTICE was changed.	FIRM04-10	CH
		GUM reboot when password input, referenced added.	FIRM04-110, 130 MPC01-331, 510 TRBL02-340, 1030, 1130	AD
		Text was changed.	FIRM05-10, 11, 12, 19, 50, 100, 130 to 180, 200, 201, 210, 240, 330, 370, 390, 391 (New page), 400 INST06-01-10, 11, 12, 70, 100, 140, 160, 170, 190, 200, 210	CH
		Message and window was changed.	FIRM05-50, 60, 240, 250 INST06-01-100	CH
		"917" was deleted.	FIRM05-420	DL
		Function of 00 10 was changed to "Monitoring data recalculation support".	FIRM06-20	CH
		Function ID00:12, 00:15, 00:24, 01:10, 01:11, 01:13, 01:14, 01:15, 01:22 was added.	FIRM06-20, 30, 31 (New page), 32 (New page)	AD
		6.4 TB was added to Flash Module Drives.	THEORY02-01-20, 250	AD
		CHB maximum number of mounted was changes.	THEORY02-01-110, 220, 221, 02-02-20, 02-13-10, 30, 110, 05-04-20 LOC02-170, 180 INST01-02-60, 01-03-30, 03-05-90, 04-05-110 PARTS02-110	CH
		System Option Mode to 837 was changed.	THEORY02-01-190	CH
		New support HDD was added.	THEORY02-01-250, 260, 270, 02-13-180	AD
		Flash Drive Model Name was changed.	THEORY02-01-260, 02-13-180	CH
		Dimension were changed.	THEORY02-02-20, 22	CH
		Table 2-20 was moved from THEORY02-02-21.	THEORY02-02-22	AD
		*1 through *5 were moved from THEORY02-02-22.	THEORY02-02-23 (New page)	AD
		"Mounted numbers of Drive Box and the maximum mountable number of drive" was changed.	THEORY02-02-30, 40	CH
		Specifications were changed to supporting NF2000.	THEORY02-02-50	CH
		Usage Environment Conditions was changed.	THEORY02-02-70	CH
		(6) was added.	THEORY02-02-90	AD
		Figure was changed.	THEORY02-03-21	CH
		High-speed format time estimation was changed.	THEORY02-04-20	CH
		6.4 TB drives were added to the formatting time.	THEORY02-04-50, 60, 61 (New page), 100	AD
		Location number was added.	THEORY02-13-70, 90, 05-03-40, 50	AD
		600KGM and 600JCM were unified.	THEORY02-13-190 to 260	CH
		"Correction Access" were added	THEORY02-14-10, 20, 21 (New page)	AD
		Description of Drive Box was changed. Figure 3-1 was changed.	THEORY03-01-10, 11 (New page)	CH
		Specification of Spare Disk was changed.	THEORY03-06-10	CH
		It travels the position of NOTE.	THEORY05-01-10	CH
		Correction.	LOC02-130	CR
		PECB location details was added.	LOC02-190, 200	AD
		*1 was changed.	LOC03-30	CH
		PCIe Channel Board (PECB) was added.	LOC03-91 (New page)	AD
		FMDACTIVE function for NF2000 was added.	LOC03-210	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Switch Package (SWPK) was added.	LOC03-232 (New page)	AD
		CHBBFAN was added.	LOC03-233 (New page)	AD
		PCIe Cable Connecting Package (PCP) was added.	LOC03-234 (New page)	AD
		CHBBPS was added.	LOC03-235 (New page)	AD
		Correction	INST00-00-10, 20, 01-02-31, 02-05-60, 140, 150	CR
		"1.3.6 Notes for Flash Module Drive (FMD) Mix Installation and Spare Drive" was added.	INST00-00-10, 01-03-110	AD
		"1.6.3 Starting Web Console" was added.	INST00-00-10, 01-06-80	AD
		CHBB was added.	INST00-00-10, 01-04-10, 20, 30	AD
		Description of PCIe cable was added.	INST00-00-30, 01-02-100, 130, 02-10-141, 142	AD
		"2.20 Setting IP address of the storage system and the SVP manually" was added.	INST00-00-30, 02-18-10, 02-20-10 (New page)	AD
		"3.5.3 Adding Channel Board for Channel Board Box" was added.	INST00-00-40, 03-05-10, 150 to 200 (New page)	AD
		"3.9.3 Changing the Type of Small Form-Factor Pluggable (SFP) (Changing Types) for Channel Board Box" was added.	INST00-00-40, 03-09-10, 150 to 220 (New page)	AD
		"3.11 Adding Channel Board Box" was added.	INST00-00-40, 03-11-10 to 100 (New page)	AD
		"4.5.3 Removing Channel Boards for Channel Board Box" was added.	INST00-00-50, 04-05-10, 130 to 190 (New page)	AD
		"4.10 Removing Channel Board Box"	INST00-00-50, 04-10-10 to 80 (New page)	AD
		Chassis fixed notation improvement.	INST00-00-20, 01-02-10 to 130, 02-03-50, 100, 02-07-10 to 50, 02-07-70, 03-04-390, 05-01-10	CH
		Model List was changed.	INST01-02-60, 100	CH
		Numbers of Channel Board was changed.	INST01-02-100	CH
		Description of PCIe Channel Board (DW-F800-1HP8) was added.	INST01-02-100, 130, 02-05-80, 02-08-100	AD
		NOTE was added.	INST01-04-20, 30, 40, 50, 02-03-10, 03-03-10	AD
		Cover attachment procedure of DB60 was changed.	INST01-04-80 REP02-02-80	CH
		Storage Device List window was changed.	INST01-06-40, 50, 70, 80, 90 MPC01-249E, 250, 270, 280, 290, 300, 302, 310, 311, 312, 313, 314, 315, 316, 317, 320, 330, 331 REP02-01-40, 50, 70, 80	CH
		Descriptions of "Add System" window were reedited.	INST01-06-50, 60, 61 (New page), 62 (New page), 70 REP02-01-50, 60, 61 (New page), 62 (New page), 70	CH/AD
		Step 5. was moved from REP02-01-80.	REP02-01-90	AD
		Figure 2-3 was changed	INST02-02-30	CH
		The changes made by rails installation procedure review.	INST02-03-40, 50, 60, 70, 80, 100, 130, 140, 150, 160, 170, 180, 03-04-100, 110, 360, 510, 520, 04-04-570	CH
		New pages added.	INST02-03-170, 180, 2-05-160, 170, 180, 190, 02-07-90, 02-08-100, 180, 190, 200, 210, 02-10-51, 91, 141, 142	AD
		Changing the Table of Distance between the RKU Racks.	INST02-02-40 to 150	AD/CH
		Table 2-11 was changed.	INST02-03-140	CH
		CAUTION was added.	INST02-05-70, 80, 02-08-80, 90, 03-07-60, 100, 230, 290, 04-03-130, 04-07-120, 130, 170, 230, 240, 280, 440, 500, 590, 650	AD
		Table 2-15 was changed.	INST02-07-90	CH
		Figure of (CBSL/DBL) was moved from INST02-08-30.	INST02-08-20	AD
		Figure of (CBSL/DBL) was moved to INST02-08-20.	INST02-08-30	DL

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		NOTICE was added.	INST02-08-80, 81 (New page), 90, 91 (New page), 100, 200, 03-05-50, 51 (New page), 120, 03-06-70, 71 (New page), 03-07-300, 301 (New page), 04-07-170, 180, 280, 281 (New page), 510, 520, 660, 661 REP02-04-130, 140, 150, 151 (New page), 320, 02-05-100, 101 (New page), 250, 02-06-80, 81 (New page), 02-11-80, 02-12-50, 60, 140, 150, 230, 240, 02-14-60, 70, 02-17-110, 230, 231 (New page), 02-20-60, 61, 62 (New page), 140, 141	AD
		Description of Step 4 was changed.	INST02-08-140	CH
		Description and Installing CMA figure were changed.	INST02-09-10, 03-04-410	CH
		Reference of cable connection figure was changed. Note for cable routing was added.	INST02-10-10	AD/CH
		Attaching PCIe cable labels was added.	INST02-10-143 (New page)	AD
		Refer to added.	INST02-10-240	AD
		PDU number was changed.	INST02-10-260	CH
		"power supply switch" was changed to "breaker".	INST02-10-280	CH
		Table 2-23 Logo Labels was changed.	INST02-14-10	CH
		The reedited because NOTICE was added to the "2.18".	INST02-18-10, 20	AD/CH
		Window design was changed. (Firmware version 83-02-01)	INST02-19-10, 03-03-10, 130, 04-04-60, 280, 470, 03-05-20, 90, 03-06-20, 30, 40, 100 03-07-20, 30, 120, 140, 150, 180, 320, 03-08-20, 30, 50, 60, 03-09-20, 30, 90, 100, 04-03-10, 20, 04-04-60, 230, 430, 04-05-20, 80, 04-06-20, 04-08-20, 30, 40, 50, 06-01-12, 200, MPC01-460, 470, 471, 472, 473, 474, 02-30, 03-90, 110, 130, 180, 190, 220, 230, 237, 250, 260, 270, 290, 380, 410, 420, 430, 440, 480, 490, 520, 530, 540, 560, 580, 600, 620, 640, 660, 670, 690, 710, 731, 750, 790, 810, 840, 850, 860, REP02-03-20, 210, 02-04-20, 30, 170, 190, 200, 340, 02-05-20, 30, 120, 140, 150, 270, 02-06-20, 30, 100, 02-07-20, 60, 02-08-20, 70, 90, 150, 170, 250, 02-09-20, 50, 02-10-20, 30, 70, 90, 150, 02-11-20, 100, 02-12-20, 80, 100, 170, 02-13-20, 60, 80, 120, 02-14-20, 90, 02-15-20, 60, 80, 120, 140, 180, 200, 240, 260, 300, 02-16-20, 80, 100, 160, 180, 240, 02-20-20, 30, 80, 100, 160, 180, 240, 260, 320, 340, 400, 02-22-20	CH
		"ShadowImage" was changed to "Hitachi ShadowImage®" and "Volume" was changed to "Hitachi Volume".	INST03-01-40	CH
		"TrueCopy" was changed to "Hitachi TrueCopy®" and "Universal" was changed to "Hitachi Universal".	INST03-01-40, 50	CH
		Web Console window was changed.	INST03-03-10, 03-04-60, 280, 470, 03-05-10, 80, 03-06-10, 03-07-10, 130, 03-08-20, 50, 03-09-10, 90, 04-03-10, 04-04-60, 230, 430, 04-05-10, 70, 04-06-10, 04-08-10, 40 MPC01-460 REP02-03-10, 02-04-10, 180, 02-05-10, 130, 02-06-10, 02-07-10, 02-08-80, 240, 02-09-10, 02-10-10, 80, 02-11-10, 02-12-10, 90, 02-13-10, 70, 02-14-10, 02-15-10, 70, 130, 190, 250, 02-16-10, 90, 170, 02-20-10, 90, 170, 250, 330	CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Text of the item step 1 was changed. NOTE was deleted.	INST03-03-130	CH/DL
		Window was changed.	INST03-03-130, 04-03-20, 30, 150	CH
		G800 was added.	INST03-03-150, 03-04-260, 450, 640, 03-05-60, 130, 03-06-80, 90, 03-07-110, 310, 330, 03-08-31, 70, 03-09-70, 140, 04-03-30, 150, 04-04-70, 240, 440, 04-05-40, 100, 04-06-40, 04-08-31, 60 REP01-06-10, 01-07-10, 01-08-10, 01-09-10, 01-10-10, 02-03-30, 40, 02-04-30, 160,200, 330, 02-05-30, 110, 150, 260, 02-06-30, 90, 02-08-180, 230, 260, 320, 02-10-30, 60, 100, 140, 02-11-30, 90, 02-12-30, 70, 110, 160, 02-14-30, 80, 02-16-30, 70, 110, 150, 190, 230, 02-20-30, 70, 110, 150, 190, 230, 270, 310, 350, 390	AD
		NOTE was changed.	INST03-04-70, 290, 480, 03-05-30, 100, 03-06-31, 50, 03-07-40, 170, 190, 03-09-40, 110, 04-03-30, 04-05-40, 04-05-100, 04-06-40 REP02-04-40, 210, 02-05-40, 160, 02-06-40, 02-08-180, 260, 02-10-30, 100, 02-11-40, 02-12-30, 110, 02-14-30, 02-16-30, 110, 190, 02-20-40, 110, 190, 270, 350	CH
		Window of CBLH was added.	INST03-04-260, 450, 640	AD
		Refer to MAINTENANCE PC SECTION was added.	INST03-05-60, 130, 03-06-100, 03-07-120, 340, 03-08-31, 70, 03-09-80, 150, 04-05-61, 121, 04-06-61, 04-08-30, 60,	AD
		Step (iii) was moved to INST03-07-330.	INST03-07-340	DL
		Step (6) was moved from INST03-09-30.	INST03-09-40	AD
		Figure was changed.	INST03-09-60, 130, 200 REP02-13-40, 110,170	CH
		Figure3-102 was changed.	INST03-11-50	CH
		Dummy (Drive) figure was changed.	INST04-03-140	CH
		Step (6) was moved from INST04-08-30.	INST04-08-31	AD
		"1.3.3 Troubleshooting of the Proxy Setting" was added.	MPC00-10, 01-72, 73	AD
		"1.6.7 Deleting the Storage System Icon" was added.	MPC00-10, 01-332	AD
		Chapter 1 page order changes.	MPC00-10, 20, 01-330, 331, 480 to 550	CH
		"1.6.2.1 Creating Storage System Icons" was added.	MPC00-20, 01-240	AD
		"1.6.2.2 Starting Web Console" was added.	MPC00-20, 01-280	AD
		*1 was added.	MPC00-30, 03-232A, 232B, 233, 234, 234A, 236C, 236D, 236E, 236F, 236G (New page)	AD
		"3.27 Acquiring system dumps" was added.	MPC00-40, 03-880	AD
		Correction.	MPC01-110, 03-110, 130, 150, 500, 750	CR
		*3 was added.	MPC01-10	AD
		"firmware versionis 83-02-01 or later " was added.	MPC01-110	AD
		NOTICE was added.	MPC01-110	AD
		Window name was changed.	MPC01-120, 180 REP02-21-20	CH
		Text was added.	MPC01-141	AD
		Descriptions of "Add System" window were reedited.	MPC01- 243, 244, 244A (New page), 250, 260, 261 (New page), 262 (New page)	
		Text of (2) was corrected.	MPC01-151	CR
		Text of (3) was corrected.	MPC01-160	CR
		Step 3 of title was changed.	MPC01-170	CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		NOTE was added.	MPC01-190	AD
		Step (2) of text was changed.	MPC01-201	CH
		Sentence was changed.	MPC01-310, 04-850	CH
		Text of step 1 was changed.	MPC01-310, 311	CH
		Text of step 2 was corrected.	MPC01-311	CR
		Step 3 was moved from MPC01-311.	MPC03-312	AD
		"Hitachi Virtual Storage ..." was deleted.	MPC01-340	DL
		NOTE was added.	MPC01-400	AD
		Step 4. was changed.	MPC01-430	CH
		Window to step 1 was added. NOTE to step 2 was added.	MPC01-470	AD
		Table was moved from MPC01-474.	MPC01-475 (New page)	AD
		"Hitachi Storage ..." was changed to "System Administrator Guide".	MPC01-480, 02-10, 04-680	CH
		10 was added.	MPC01-520, 521 (New page)	AD
		Description was added.	MPC01-540, 550	AD
		Add the contents of the Troubleshooting of Maintenance Utility.	MPC01-550	AD
		Port number (SLP, SMI-S) was deleted.	MPC02-20, 10-10, 10-30	DL
		SNMP prohibition character was added.	MPC02-40, 03-10, 231A, 232, 232A, 232B, 233A, 234, 236B, 236C, 236D, 236E	AD
		.Setting a network, Time setting and Edit Login Message Guidance was changed.	MPC02-50, 60, 61 (New page), 62 (New page), 03-250, 260, 270, 280, 281 (New page), 282, 290, 640	AD/CH
		Step 5 was moved from MPC03-130.	MPC03-140	AD
		Step 7 was moved from MPC03-140,	MPC03-141 (New page)	AD
		Deleted page.	MPC03-181	DL
		Step 5 and Step 6 were moved to MPC03-211.	MPC03-210	DL
		Step 5 and Step 6 were moved from MPC03-210.	MPC03-211	AD
		83-01-21 or more was moved from MPC03-236A	MPC03-236	AD
		83-01-21 or more was moved to MPC03-236.	MPC03-236A	DL
		Window was changed. Table was changed.	MPC03-280	CH
		Sentence of Step 3. was changed.	MPC03-400	AD/CH
		Table of Step 4. was changed. And append the sentence to NOTICE.		
		Step 6. was added.		
		Step 4 was moved from MPC03-410.	MPC03-411 (New page)	AD
		Step 4 was moved from MPC03-420.	MPC03-421 (New page)	AD
		Step 4 was moved from MPC03-430.	MPC03-431 (New page)	AD
		"Hitachi Device ..." was changed to "System Administrator Guide"	MPC03-490	CH
		"System User Guide" was changed to "Provisioning Guide".	MPC03-470	CH
		NOTE was added.	MPC03-580, 600	AD
		Window of Step 2 was changed.	MPC01-710	CH
		Step 1 and 2 was added. Move step 3-5 to the next page.	MPC03-730, 731 (New page)	AD
		NOTE to step 8 was deleted.	MPC03-740	DL
		Table of related alerts window start method was changed.	MPC03-810, 811	CH
		Sentence of Step 3. was changed.	MPC04-20, 180, 560	CH
		ALU attribute and SLU attribute to LDEV types and attribute to be displayed was added.	MPC04-50, 70, 80, 90, 130, 150, 400, 410, 610, 630, 670	AD
		T10 PI was added..	MPC04-60, 70, 80, 90, 130, 140, 150, 410	AD
		Table was changed.	MPC04-150	CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Sentence of Step 4. was changed.	MPC04-210, 440, 460	CH
		Output Detail was changed.	MPC05-150	CH
		Capacitor Error to table was Added.	MPC05-400、 450	AD
		Window of Another Drive Model was added.	MPC05-430、 440、 510、 530、 540	AD
		Window of Step 4 was changed.	MPC05-1170	CH
		CHBB was added.	MPC09-70, 80	AD
		Replaces the step.	DIAG04-40, 50, 80, 90, 120, 130, 140, 170, 190	CH
		SW/SCM in the error code table was added.	DIAG06-910, 920, 930, 940	AD
		LSI type "GCTL" was added.	DIAG06-940	AD
		"4.1.4 CHBB" was added.	ACC00-10, 04-370, 371 (New page)	AD
		"4.1.5.7 PKC0 = D8 (PCI Cable)" was added.	ACC00-10, 04-622	AD
		List of ACC was changed.	ACC03-10, 20, 04-260	CH
		Table was moved. (New page)	ACC04-361	AD
		Remove the contents of the table	ACC04-640	DL
		Reedited due to adding the REF CODE. • Added code: ac6100, af42xx, af44xx, af46xx, af48xx, af4a0x, af4b0x, af4c0x, af4d0x, cf13xx, effcxx, ffd400, d88xyy, d89xyy, dc9xyy2153xx, 2154xx, 2157xx, 3c9600, 4c4xxx	SIMRC02-30, 40, 50, 60, 70, 80, 90, 150, 160	AD/CH
		Numbers of pair status changes was added.	IMRC02-240, 280	AD
		NOTE was changes.	SIMRC02-190, 220, 290	CH
		Descriptin of SWPK/CHBBPS/CHBBFAN were added.	SIMRC02-311 (New page)	AD
		Descriptin of "(40) PECB" was added.	SIMRC02-311 (New page)	AD
		Byte28 = 70 to 79, 80 to 86 was added. (New pages added.)	SSBLOG05-831, 832, 1891, 1892, 1900 to 1915, 2291, 3061 to 3064	AD
		Title of 2.1 was changed.	TRBL00-10, 02-20, 21 (New page)	CH
		Title of 2.1.2 was changed.	TRBL00-10, 02-20, 50	CH
		"2.1.10 Turning off POWER of the Storage System LED" was added.	TRBL00-10, 02-171 (New page)	AD
		"2.2.16 Recovery Procedure When the Drive Status or the PS Status is "Normal" and the ALM LED (red) Lights Up" was added.	TRBL00-10, 02-412 (New page)	AD
		"2.4 When SIM is not Reported" was added.	TRBL00-10, 02-440	AD
		Correction.	TRBL00-20, 30, 02-70, 110, 180, 280, 290, 310, 320, 330, 420, 460, 470, 480, 490, 03-110, 120, 230, 350, 360, 420, 430, 440, 490, 500, 510, 550, 551, 561, 562, 570, 571, 581, 582, 590, 600, 610, 1061, 04-150, 180, 390, 710, 720, 1060, 1080, 1110, 05-10, 50, 06-20, 30, 90, 100, 110, 150, 160, 07-20, 30, 40, 50, 60, 70, 09-20, 10-90, 11-70, 110, 120, 240, 12-10, 30, 13-20, 15-110, 120, 17-10, 18-20, 50, 60, 70	CR
		3.37 and 3.37.2 were added.	TRBL00-30	AD
		"3.53 Recovery Procedure When SWPK is Blocked (SIM = 2154xx)" was added.	TRBL00-40, 02-440, 03-1170 (New page)	AD
		"3.54 Recovery Procedure When the Initial Installation Fails" was added.	TRBL00-40, 03-1180 to 1230 (New page)	AD
		"3.55 Recovery Procedure When the Part Installation Error Occurs (SIM = ffd400)" was added.	TRBL00-40, 03-1240 and 1250 (New page)	AD
		"3.56 Recovery Procedure when Flash Module Drive Initialization Fails (SIM = 4c4xxx)" was added.	TRBL00-40, 03-1260 through 1270 (New page)	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Title of 12.1 was changed.	TRBL00-60, 12-10	CH
		Added NOTE to "Failures at the Time of Planned Shutdown". Flow was changed.	TRBL02-50, 51	AD/CH
		New page added.	TRBL02-51	AD
		Flowchart was changed.	TRBL02-10, 80, 91 (New page), 100, 101 (New page), 120, 130	AD/CH
		"3.37.1" in flow was changed.	TRBL02-200	CH
		• "effcxx" was added to the 3.37 of recovery procedure.	TRBL02-431 (New page)	AD
		• "ffd400" (3.55), "4c4xxx" (3.56) were added.		
		"660100, ..." was moved from TRBL03-440.	TRBL02-432 (New page)	AD
		And update the priority table and flow chart of failure recovery	TRBL02-450, 461 (New page), 470	AD
		"0x21a8" to the "21a8xx" and "21aaxx" were changed.	TRBL03-10	CH
		Reedited due to adding ④ in TRBL03-60.	TRBL03-30, 40, 50, 60, 70, 80, 90	AD
		*1 was deleted.	TRBL03-40	DL
		Communication service was added.	TRBL03-551 to 689	AD/CH
		Page number reconstructed.		
		SSB = 9382 troubleshooting method corrected	TRBL03-550, 551, 571, 572	CR
		Table title was added.	TRBL03-620, 621	AD
		No.4 was added to the table.	TRBL03-630	AD
		Description of messages in the text was added.	TRBL03-650	AD
		Message ID "21542-005033" was added.	TRBL03-650, 651, 652, 653	AD
		SMI-S provider service was deleted.	TRBL03-657, 688 (Delete page), 689 (Delete page)	DL
		Title of 3.37 was added. 3.37 → 3.37.1	TRBL03-860	AD/CH
		No.5, 6, and 7 were moved from TRBL03-860.	TRBL03-861	AD
		"equipment" was changed to "Storage System".	TRBL03-870, 880, 890	CH
		"Yes" and "No" in flow was changed.	TRBL03-900, 1020	CH
		No. ⑥, ⑦ were moved from TRBL03-930.	TRBL03-921, 922 (New pages)	AD
		3.37.2 was added.	TRBL03-930	AD
		Description of 3.37.2 was added.	TRBL03-931, 932, 933, 934, 935 (New pages)	AD
		"System construction guide" was changed to "Provisioning Guide".	TRBL04-1030	CH
		"Universal" was changed to "Hitachi Universal".	TRBL04-1060, 1080, 1100	CH
		"trouble shooting" in flo chart was corrected to "troubleshooting".	TRBL06-90	CR
		Recovery procedures of blocked pool VOL were added.	TRBL10-20, 21 (New pages), 30	AD
		"Hitachi Virtual Storage..." was changed to "System Administrator Guide".	TRBL10-30	CH
		NOTE was added. (*5) was added.	TRBL10-40	AD
		Description of flow was moved from TRBL10-40.	TRBL10-50	AD
		• NOTE was moved to TRBL10-40.	TRBL10-60	CH/AD
		• "ProvisioningGuide" was changed to "Provisioning Guide".		
		• *5 was added.		
		Description of the "System Option Mode 1083" was added in the flow chart.	TRBL10-100	AD
		Flowchart was changed.	TRBL10-130	CH
		Reference in table was added.	TRBL11-30	AD
		NOTICE was added	TRBL13-10	AD
		"orange" to the "amber" was changed.	TRBL15-130	CH
		"2.1.3 Starting Web Console" was added.	REP00-10, 02-01-80	AD

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REV.	Date	Description	Sheet No.	Code
		CHBB was added.	REP00-10, 02-02-10, 20, 30	AD
		2.8.1.1 and 2.8.2.1 was deleted.	REP00-20, 02-08-10 to 80, 160 to 240, 02-08-330 to 360 (New pages)	AD/DL
		"2.8.3 Replacement of a Battery for BKM (Factory and distribution center only)" was added.		
		"2.12.3 Replacing a Channel Board for Channel Board Box" was added.	REP00-20, 02-12-10, 180 to 260 (New pages)	AD
		"2.13.3 Replacing a Small Form-Factor Pluggable (SFP) for Channel Board Box" was added.	REP00-20, 02-13-10, 130 to 180 (New pages)	AD
		"2.15.6 Replacing a Power Supply (CHBBPS) for CHBB" was added.	REP00-20, 02-15-10, 310 to 360 (New pages)	AD
		"2.18.6 Replacing the Front Bezel of CHBB" was added.	REP00-30, 02-18-20, 80 (New pages)	AD
		"2.23 Replacing a Channel Board Box" was added.	REP00-30, 02-23-10 to 140 (New pages)	AD
		"2.24 Replacing a PCIe Channel Board" was added.	REP00-30, 02-24-10 to 90 (New pages)	AD
		"2.25 Replacing a PCIe-cable Connecting Package" was added.	REP00-30, 02-25-10 to 80 (New pages)	AD
		"2.26 Replacing a Switch Package" was added.	REP00-30, 02-26-10 to 70 (New pages)	AD
		"2.27 Replacing a FAN (CHBBFAN)" was added.	REP00-30, 02-27-10 to 50 (New pages)	AD
		"2.28 Replacing a PCIe Cable" was added.	REP00-30, 02-28-10 to 80 (New pages)	AD
		*1 and *2 was deleted.	REP01-10-10	DL
		Channel Board Box Replacement Processing List was added.	REP01-06-60	AD
		Other Parts of DKC Replacement Processing List was changed.	REP01-06-70, 80 (New pages)	AD
		NOTE was added.	REP02-02-20, 30, 40, 50	AD
		Window was changed.	REP02-03-20, 30, 210	CH
		Procedure was changed due to the difference between NF1000 and NF2000.	REP02-03-110	CH
		CAUTION was added.	REP02-03-110	AD
		New pages added.	REP02-03-111, 02-17-850, 860, 870, 880	AD
		NOTE was added. (When the Drive status is "Normal" ...)	REP02-03-200, 210	AD
		(2) was moved from REP02-03-210.	REP02-03-220	AD
		Change work procedure description.	REP02-04-20, 30, 190, 200, 02-05-20, 140, 02-06-20, 02-20-20, 30, 61, 140, 141, 180, 210, 221, 260, 290, 301, 340, 370, 381	CH
		NOTE was changed.	REP02-04-160, 330, 02-05-110, 260, 02-06-90,	CH
		(5) was moved from REP02-05-30.	REP02-05-40	AD
		(1) was changed.	REP02-05-50, 02-11-60	CH
		(5) was moved from REP02-05-150.	REP02-05-160	AD
		(5) and (6) were moved from REP02-06-30.	REP02-06-40	AD
		(5) was moved from REP02-10-30.	REP02-10-31 (New page)	AD
		CBSS/CBSL was deleted.	REP02-12-40	DL
		CBLM/CBLH was deleted.	REP02-12-130	DL
		NOTICE was changed.	REP02-15-40	CH
		CAUTION label of "Watching for short-circuits:" was changed.	REP02-15-41, 100, 151, 220, 280, 340, 02-16-50, 130, 210, 02-20-221, 301, 381	CH
		(d), (e) was changed.	REP02-15-50, 340	CH
		NOTICE was added.	REP02-15-50, 340	AD
		NOTICE was changed to NOTE.	REP02-15-51, 170, 230, 290	DL
		NOTE was added. (When the DKCPS (or DBPS) status is "Normal" ...)	REP02-15-51, 60, 170, 180, 230, 240, 290, 300	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		NOTE was added. (When the ENC status is "Normal" ...)	REP02-16-80, 160, 240	AD
		Model name also shown.	REP02-17-260	AD
		Figure was changed.	REP02-17-580	CH
		Front Bezel for CHBB was added.	REP02-18-10	AD
		Lead sentence was deleted.	REP02-20-10	DL
		(5) was moved from REP02-20-30.	REP02-20-40	AD
		Refer to page number (INST02-10-250) added.	REP02-20-50, 61, 130, 141, 210, 221, 370, 381	AD
		Refer to added.	REP02-20-61, 141, 221, 301, 381, 02-28-60	AD
		Caution statement was added.	REP02-20-90, 170, 250, 330	AD
		Step 10 was moved from REP02-22-20.	REP02-22-30 (New page)	AD
		Figure3-102 was changed.	REP02-24-60	CH
		NOTICE was added.	REP03-01-10	AD
			PARTS03-100	
		Correction	MSG03-540, 1000	CR
		ID4466 was changed.	MSG03-1150	CH
		ID4588, ID4590, ID4591, ID4592, ID4593 was added.	MSG03-1260, 1270	AD
		ID4589 was changed.	MSG03-1260	CH
		"2.17 CHBB" was added.	PARTS00-10, 02-440, 450	AD
		Figure was changed.	PARTS02-100, 140	CH
		Channel Board (PCIe) was added.	PARTS02-140, 160, 03-50, 70	AD
		Correction.	PARTS03-40	CR
		Parts name was changed.	PARTS03-90	CH
		Table was moved from the previous page along with the addition of FN2000 corresponding drives.	PARTS03-91	CH
		Parts of CHBB to parts list was added.	PARTS03-92 (New pages)	AD
		Figure was changed.	PARTS03-120	CH
		Review the contents.	GLOSSARY01-20, 30, 40	CH
		Glossary was added.	GLOSSARY01-10, 30, 40, 50 (New pages)	AD

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REV.	Date	Description	Sheet No.	Code
2.3a	Jan.8.2016	REV.2.3 → REV.2.3a	i	CH
		CAUTION was added.	MPC08-20	AD
2.3	Sep.28.2015	REV.2.2 → REV.2.3	i	CH
		GUM reboot procedure was added.	FIRM03-50	AD/CH
			MPC00-40, 01-500, 03-730, 740, 870 (New page)	
			TRBL03-1010, 1130	
		All port number Allowed change correspondence	MPC02-20, 10-10, 20, 30	CH
			TRBL03-676, 679, 686	
2.2	Aug.26.2015	REV.2.1 → REV.2.2		CH
		Dump output destination was changed.	MPC05-50, 60, 61, 150	CH
2.1	July.17.2015	REV.2 → REV.2.1	i	CH
		1R8JGM/1R8J6M/1R8J8M to Quick Format	THEORY02-04-100	AD
		Time was added.		
		HDD capacity of the maintenance PC was changed.	MPC01-10	CH
		Windows was changed.	MPC01-302, 03-790, 800	CH
		Window of firmware version (83-01-21) was added. Table 5-4 was added.	MPC05-40, 60, 70	AD
		New page added. (Table 5-5, 5-6 was moved from MPC05-60.)	MPC05-61	AD
		Content of the 5B800000 was changed.	ACC04-640	CH/DL
		5B000000 was deleted.		
		DKCPS# was added.	SIMRC02-40, 310	AD
2	Jun.26.2015	REV.1.3 → REV.2	i	CH
		Model Name Conversion of power specifications were added.	v	AD
		DC power supply Model was added. (3.3, 3.4, 3.5, 3.6)	SAFETY00-10, 03-30, 40, 50, 60, 100, 110, 130, 140, 170	AD
		Statment was added. (Hazard exists that ...)	SAFETY02-40	AD
		"When removing a ..." was moved from SAFETY02-40.	SAFETY02-50	AD
		Channel Board figure was added.	SAFETY03-160	CH
		Reedited due to adding the Components. (DC power supply, iSCSICopper, PS cable (J4DC, J4DC3), 2HS10B, Drive type, *1, *2)	OPTVER01-10, 20, 30, 40, 50, 60	AD/CH
		Drives type name (1R8JGM, 1R8J6M, 1R8J8M) was added.	OPTVER01-40	AD
			THEORY02-02-60	
			INST01-02-10, 11, 20, 21, 30, 31, 40, 50, 70, 80, 90, 110, 120, 130, 210, 03-03-20, 04-03-40	
			REP02-03-70	
			PARTS02-10, 30, 40, 41, 42, 43, 50, 70, 80, 81, 82, 83, 170, 190, 210, 230, 241, 243, 250, 270, 290, 310, 321, 323, 330, 340, 360, 370, 03-80, 90, 91	
		Title of 5.2 was changed.	FIRM00-10	CH
		"6. Appendixes" was added.	FIRM00-10, FIRM06-10, 20, 30, 40	AD
		"active flash" was added.	FIRM03-10	AD
			INST03-01-40, 50, 70, 06-01-130	
			TRBL03-450	
			REP01-06-30	
		NOTICE was added.	FIRM03-10	AD
		Clerical error was corrected.	FIRM00-10, 03-30, 40, 50, 70, 110, 190, 05-10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280	CR

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Description of processing before exchange (online) was added.	FIRM03-30	AD
		*1 in the Table was added.	FIRM03-40	AD
		Differences between the procedure by the Firmware version was added.	FIRM03-50, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69	AD
		NOTE was added.	FIRM03-80, 05-100	AD
		Table was added to newly.	FIRM03-110	AD
		Windows was changed.	FIRM03-130	CH
		Step 12 was added	FIRM03-140	AD
		Step 13 was moved from FIRM03-140.	FIRM03-150	AD
		Procedure of Config Exchange Procedure was changed.	FIRM05-10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 30, 40, 100, 150, 160, 170, 180, 200, 201, 210, 220, 230, 240, 300, 360, 370, 380, 390, 400, 440	CH
		"HDP/HDT/active flash-VOL" to the "DP-VOL" was changed.	FIRM05-100, 280, 290	CH
		Step 3 was deleted.	FIRM05-420	DL
		CAUTION was changed	FIRM05-420	CH
		Chapter 6 were added.	FIRM06-10, 20, 30, 40	AD
		Corrected the NG words. (firmware, Storage System, PK, etc.)	FIRM04-10, 05-420, THEORY01-01-10, 02-03-20, 02-04-120, 02-13-20, 02-13-40, 370, 02-14-20 INST05-01-10 MPC01-480, 04-450, 05-910 DIAG02-30 ACC04-20 SIMRC02-80 SSBLOG05-680 TRBL00-30, 02-440, 03-1080, 1110, 07-10, 10-10, 100, 18-10, 20, 30, 50, 60, 90, 120, 19-10 REP00-10, 01-02-10, 01-03-160, 01-07-10 GLOSSARY01-10	CR
		Reedited due to adding Title number. Adding: 2.3.1, 2.4.2.2, 2.5.1 Changing: 2.4.2.3, 2.6.3.6, 2.7, 2.11.1, 4.2	THEORY00-00-10, 20, 30	AD/CH
		"... parity group." of Advantage was corrected.	THEORY00-01-10	CR
		1.8 TB was added in the No.3.	THEORY02-01-20	AD
		"Maker" of Table 2-1 was changed to "Manufacturer".	THEORY02-01-30	CH
		Description of power supply was added.	THEORY02-01-60	AD
		CBSSD/CBSLD was added.	THEORY02-01-100, 170, 180, 02-02-50, 02-03-30, 05-01-10 LOC03-110 INST01-02-11, 21 REP02-15-30, 40, 41, 51, 02-17-30, 50, 110, 02-17-301 PARTS02-41, 42, 43, 81, 82, 83, 430, 03-10, 50, 60, 70, 80, 90	AD
		Description of "Maximum two Disk Boards ..." was added to (2).	THEORY02-01-110	AD
		DIMM capacity "...GB" was changed to "DIMM capacity "...GB/CTL".	THEORY02-01-140	CH
		Table was changed.	THEORY02-01-150, 02-02-50, 60	CH
		"generated" in table was changed to "output".	THEORY02-01-200	CH
		The postscript to Disk Board Specifications.	THEORY02-01-210	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		"2HS10B" (Model name) of Channel Board was added. (Copper)	THEORY02-01-220, 230, 02-02-60, 02-13-10, 30 LOC03-80, 90 INST01-02-10, 20, 60, 100, 240, 03-05-40, 110, 04-05-50, 110 REP02-12-40, 120, 130 PARTS02-20, 40, 60, 70, 100, 110, 140, 150, 03-50, 70	AD
		DBSD/DBLD was added.	THEORY02-01-230, 02-03-21, 02-03-30 LOC03-160 INST01-02-30, 40, 02-10-271, 272, 04-04-90 REP02-15-30, 130, 150, 151, 170, 02-17-390 PARTS02-241, 242, 243, 244, 321, 322, 323, 324, 430, 03-60, 70, 80, 90	AD
		Description was added in Figure 2-21.	THEORY02-01-240	AD
		1.8 TB HDD was added.	THEORY02-01-250, 02-02-50, 60, 02-03-20, 21, 02-13-180, 181	AD
		Drive types were added.	THEORY02-01-260, 270, 02-13-180	AD
		Storage System specifications was changed.	THEORY02-02-10, 20, 21, 22, 50	CH
		Table title changed.	THEORY02-02-10	CH
		Mounted numbers of Drive Box and the maximum mountable number of drive (DC Power Supply Model) was added.	THEORY02-02-30, 41	AD
		Environmental Specifications was corrected.	THEORY02-02-70	CR
		Description of firmware was added to Item (1).	THEORY02-02-80	AD
		"operation" in table was changed to "operating".	THEORY02-02-90	CH
		Table was added.	THEORY02-03-10	AD
		"CTL-*" was changed to "CTL*".	THEORY02-03-20	CH
		1.8 TB HDD and VSP G800 to format time estimation was added.	THEORY02-04-20, 30, 40, 50, 60	AD
		Description was added to the text.	THEORY02-04-70	AD
		Contents in Item No.9 was added.	THEORY02-04-80	AD
		2.4.2.2 was changed.	THEORY02-04-90	CH
		Title of 2.4.2.3 was changed.	THEORY02-04-100	CH
		"format" was changed to "formatting".	THEORY02-04-110	CH
		Title of 2.5.1, 2.5.1.1, 2.5.1.2, 2.5.1.3, 2.5.1.4 and 2.5.1.5 were changed.	THEORY02-05-10, 20, 30, 40	CH
		"etc." was changed to "et cetera".	THEORY02-05-50, 02-14-10, 02-15-10, 20, 30, 03-02-10	CH
		Description of Step.1 was changed.	THEORY02-05-60	CH
		Contents in table was changed.	THEORY02-05-70	CH
		Description of Step.1 was changed.	THEORY02-05-110	CH
		"PM info." was changed to "PM information".	THEORY02-05-130	CH
		Description was added to target MPU of Step 5.	THEORY02-05-140	AD
		"request" was changed to "requirement".	THEORY02-05-170, 02-08-20, 02-13-350, 03-05-10, 20, 30	CH
		Title of 2.6.3.6 was changed.	THEORY02-06-110	CH
		Figure title was changed.	THEORY02-06-120, 130, 140, 150, 160, 170, 180	CH
		"de-stage" was changed to "Destage".	THEORY02-06-200	CH
		Title of 2.7 was changed.	THEORY02-07-10	CH
		Contents of Table 2-42 was changed.	THEORY02-08-10	CH
		"Un used section" was changed to "Unused area".	THEORY02-09-20	CH
		Referenced of "1.3.5 Notes..." was added.	THEORY02-10-10	AD
		Title of 2.11.1 was changed.	THEORY02-11-10	CH
		Description in Step 1 was changed.	THEORY02-13-10	CH
		Description of (7) was changed.	THEORY02-13-20	CH
		"Remarks" was changed to "Remarks".	THEORY02-13-60, 80	CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		1.8TB to List of emulation types was added.	THEORY02-13-190, 200, 210, 220, 230, 240, 250, 260	AD
		Change of the reference section.	THEORY02-13-290, 300	CH
		"support" of table was changed to "supported".	THEORY02-13-400	CH
		Figure was changed.	THEORY05-04-10, 20	CH
		"Driver Box" was changed to "Drive Box".	THEORY03-01-20	CH
		Title of 4.2 was changed.	THEORY04-02-10	CH
		"CM" was changed to "DIMM".	THEORY05-04-10, 20	CH
		Title were added. 2.4.1.1, 2.4.1.2, 2.4.1.3, 2.4.2.1, 2.4.2.2 and 2.4.2.3.	LOC00-10	AD/CH
		Reedition of the 2.4 Pats Location	LOC02-90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200	CH
		"Pettern" of table was changed to "Pattern".	LOC03-30	CH
		Description of "Function" was changed.	LOC03-40, 50, 70	CH
		DC power supply LED was added.	LOC03-110, 160	AD
		"Power Supply Unit" of table was changed to "Power Supply".	LOC03-190	CH
		LED name was corrected.	LOC03-230	CR
		" × " was changed to " × ".	LOC05-10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280,	CH
		2.10.3.1 and 2.10.3.2 were added in the Contents.	INST00-00-30	AD
		1.6.1.1 and 1.6.1.2 was added.	INST00-00-10, 20, 30, 40, 50, 01-06-10, 30	AD
		Corrected the notation of the English sentence.	INST00-00-30, 01-01-10, 01-02-150, 01-03-10, 40, 50, 60, 70, 01-04-20, 30, 40, 50, 60, 70, 01-05-10, 20, 01-06-80, 02-01-20, 30, 02-02-30, 40, 02-03-10, 30, 40, 140, 02-04-20, 02-05-20, 30, 40, 60, 70, 80, 90, 110, 150, 02-06-10, 20, 02-07-10, 02-08-20, 30, 50, 80, 90, 110, 130, 140, 150, 170, 02-10-10, 240, 160, 02-11-10, 20, 02-12-10, 02-13-10, 02-14-10, 02-17-10, 02-18-10, 03-01-20, 40, 70, 80, 90, 03-03-10, 30, 40, 50, 03-04-10, 20, 30, 50, 80, 90, 170, 300, 310, 320, 330, 400, 440, 490, 500, 600, 03-06-100, 03-07-60, 80, 100, 240, 280, 03-09-50, 60, 120, 03-10-10, 04-01-10, 04-03-40, 50, 60, 70, 80, 90, 100, 120, 130, 140, 04-04-10, 20, 30, 80, 210, 240, 250, 320, 370, 390, 400, 450, 460, 490, 550, 04-07-10, 40, 80, 120, 110, 140, 170, 190, 220, 230, 250, 280, 310, 360, 380, 410, 450, 470, 530, 560, 600, 620, 04-09-10, 06-01-100, 170, 210, 06-02-10	CR
		New pages added.	INST00-00-50, 01-02-11, 21, 31, 02-10-271, 272, 03-04-251, 252, 04-03-151, 04-04-131, 132, 261, 04-08-31	AD
		"Optical cable" to the "interface cable" was changed.	INST01-01-30, REP01-01-40	CH
		Description of AC power supply was added.	INST01-02-10, 20, 30, 40, 50, 02-10-260, 03-04-200, 03-04-100 REP02-15-10	AD
		Description of BNST was changed.	INST01-02-10, 20, 30, 40, 50, 70, 80, 90, 110, 120, 130	CH
		PS cable (J4DC, J4DC3) was added.	INST01-02-140	AD
		Description of DC power supply was added.	INST01-02-11, 21, 30, 40, 02-10-271, 272, 03-04-251, 252, 04-04-131, 132 ACC04-41, 131, 190, 250 REP02-15-10	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Description of firmware version (83-01-02) was added.	INST01-03-90	AD
		1.8TB HDD transfer rate was changed.	INST01-02-10, 11, 20, 21, 30, 31, 40, 50, 60, 70, 80, 90, 100, 110, 120, 01-03-30,	CR
		Drive types were added.	INST01-02-210, 220	AD
		Configuration was corrected.	INST01-03-10, 20	CR
		Procedure for closing rear door was changed.	INST01-04-100	CH
		Windows was changed.	INST01-06-90, 100, 03-03-10, 130, 140, 150, 03-04-60, 70, 260, 280, 290, 450, 470, 480, 640, 03-05-20, 60, 90, 130, 03-06-20, 30, 31, 40, 80, 90, 100, 03-07-20, 30, 40, 110, 120, 140, 150, 160, 180, 310, 320, 330, 340, 03-08-21, 30, 40, 50, 60, 70, 03-09-20, 70, 91, 100, 110, 140, 04-03-10, 20, 150, 04-04-60, 70, 71, 230, 240, 241, 430, 440, 441, 04-05-20, 80, 04-06-20, 04-08-20, 30, 41, 50, 60, 06-01-200	CH
		"License setting" of work item was changed to "Setting liscence keys".	INST02-01-11, 20	CH
		Editing Air Filter Replacement Notice of Work-19 has been added.	INST02-01-20	AD
		"Cable holder" in the figure was deleted.	INST02-05-120	DL
		Model Name and Number was changed.	INST02-10, 11, 20, 21, 30, 31, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 03-03-20	CH
		"Optical cable" to the "cable" was changed.	INST02-10-20, 30, 40, 50, 03-05-50, 120, 04-05-50, 110 REP02-12-50, 60, 140, 150, 02-13-40, 50, 100, 110, 02-17-190, 220	CH
		"iSCSI cable" to the "cable" was changed.	INST02-10-60, 70, 80, 90	CH
		Table was added to newly.	INST02-10-100	AD
		Figure was changed.	INST02-10-140	CH
		SAS cable length limitation to NOTE was added.	INST02-10-160	AD
		2.10.3.1 was added.	INST02-10-260	AD
		PDU NOTE was changed.	INST02-10-260, 03-04-220, 610	CH
		2.10.3.2 was added.	INST02-10-271	AD
		2.19 was added.	INST02-19-10, 20	AD
		Notice in the additional work was added.	INST03-01-10	AD
		*1 was deleted.	INST03-01-30	DL
		Description of "4. Shared Memory (SM) Capacity" and "5. Cache capacity" were changed.	INST03-01-40, 50, 60, 70	CH
		"AF" to the "active flash" was changed.	INST03-01-40, 50, 70	CH
		"S model" was changed to "CBSS/CBSL".	INST03-01-70	CH
		Shared Memory (SM) Capacity was changed.	INST03-03-10, 03-04-60, 280, 470, 03-05-10, 80, 03-08-20, 50, 04-08-10, 40	CH
		Password request was changed.	INST03-03-20, 30, 40	CH
		Order of Step 3 and Step 4 was changed.	INST03-03-20, 150, 04-03-40, 150	AD
		"In case of DB60" was added.	INST03-03-50	DL
		NOTICE was deleted.	INST03-03-150, 03-04-260, 450, 640, 03-05-60, 130, 03-06-80, 90, 03-07-110, 310, 330, 03-08-40, 70, 03-09-70, 140, 04-03-30, 150, 04-04-70, 240, 440, 04-05-40, 100, 04-06-40, 04-08-30, 60	CH
		Reference was changed.	INST03-04-20, 30, 40, 04-04-20, 30, 40	CH
		Parts List was chenged.	INST03-04-210, 220, 240, 250, 04-04-120, 130	CH
		The item number was changed.	INST03-06-30, 90, 100	AD
		Supplement of the window operation by DKB type was added.		

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Cache Memory size of CBLM/CBLH was changed.	INST03-07-160	CH
		SMALL FORM-FACTOR PLUGGABLE (10 Gbps ShortWave) was added.	INST03-09-50, 120	AD
		Notice in the removal work was added.	INST04-01-10	AD
		Order of Step 8 and Step 9 was changed.	INST04-03-40, 50, 60	CH
		Removal procedure of SAS cable was added.	INST04-04-140, 141, 170, 200, 330, 400, 510, 511, 530, 560	AD/CH
		LED name was changed.	INST04-04-470	CH
		(7) was changed.	INST04-07-30, 330	CH
		Correction.	INST04-07-120, 130	CR
		(b) was changed.	INST04-07-500, 650	CH
		(c) and (d) were changed.	INST04-07-510, 660	CH
		(1) was changed.	INST04-07-670	CH
		Firmware new installation procedure was changed.	INST06-01-11, 12, 20, 21, 30, 40, 80, 81, 170, 180, 190, 06-02-20	CH
		Step 5 and 6 was changed.	INST06-01-70	CH
		NOTE was added. (or content was added.)	INST01-06-90, 100, 06-02-20	AD
		"HDP/HDT/active flash-VOL" to the "DP-VOL" was changed.	INST06-01-130	CH
		NOTICE was added.	INST06-01-140	AD
		1.2.1 and 1.2.2 was added.	MPC00-10, 20, 30, 40, 50, 60, 70, 01-20, 30, 40	AD
		Procedure reconstruction of 1.5.2, 1.5.3, 1.6.2, 1.6.4, 1.6.5	MPC00-10, 110, 200, 240, 270, 310, 311, 312, 320	CH
		Reedited due to adding NOTE	MPC00-10, 01-50, 60, 70, 71	CH
		1.6.6 was added.	MPC00-10, 03-321, 322	AD
		Notice in the maintenance work was added.	MPC00-10, 01-460, 470, 04-10	AD
		1.11 was added.	MPC00-20, 01-540	AD
		3.4.3.6 and 3.4.3.7 was added.	MPC00-20, 03-236B, 236C, 236D, 236E, 236F	AD
		AutoDump" was changed to "Auto Dump".	MPC00-50, 05-40	CH
		Correction.	MPC00-60, 01-222, 300, 08-20	CR
		10 was added.	MPC00-60, 10-10, 20	AD
		Information of monitoring was added.	MPC01-20, 06-10	AD
		NOTE was added. (or content was added.)	MPC01-50, 280, 300	AD
		Table 1-2 was changed.	MPC01-70	CH
		New pages added.	MPC01-71, 142, 201, 281, 03-281, 321, 322	AD
		Software version table was changed.	MPC01-110	CH
		Firmware version is added to the case of more than 83-01-21.	MPC01-141, 201, 221, 240 to 249E	AD
		Differences between the procedure by the Firmware version was added.	MPC01-150, 151, 310, 311, 08-20	AD
		"active flash" was added.	MPC01-221, 04-650, 760, 770	AD
		Replacing Air Filters was added.	MPC01-224	AD
		Description of "enable operation status" was added.	MPC01-280	AD
		INST02-10-260 added.	MPC01-290	AD
		New page added.	MPC01-291	AD
		"Service Status" window was added.	MPC01-300, 301, 302	AD
		Contents of 16.8 section was added	MPC01-340	AD
		Step (5) was added. Correction.	MPC01-390, 400, 410	AD/CR
		Alert level was changed	MPC01-474	CH
		Troubleshooting List to added.	MPC01-480, 490, 510, 511	AD
		Recovery Action of "JavaScript security ..." was changed.	MPC01-500	CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Network failures was added.	MPC01-500, 510	AD
		NOTICE was added.	MPC02-60, 03-280, 281, 08-10	AD
		Step 7 was added	MPC02-70	AD
		NOTE was added.	MPC02-70, 281, 04-670	AD
		Update procedure of the firmware was deleted.	MPC03-30, 40, 50, 60, 70, 80	DL
		NOTICE was added.	MPC03-110, 120, 130, 140, 150, 160, 750, 05-880,	AD
		Step 1 was changed.	MPC03-180, 220, 230, 235, 236, 237, 04-660	CH
		References was changed.	MPC03-212	CH
		Differences between the window by the Firmware version was added	MPC03-230A, 231, 231A, 231B, 232, 232A, 232B, 233, 233A, 234, 234A, 235, 236, 236A, 380, 410, 420, 430, 440, 441	AD
		SNMP information item of "Set Up Alert Notifications" window was changed.	MPC03-231, 231A, 231B	CH
		Title change of 3.4.3.3.	MPC03-233	CH
		Title change of 3.4.3.3.	MPC03-235	CH
		NOTICE was changed.	MPC03-235	CH
		Step 3 was changed.	MPC03-237	CH
		Windows was changed.	MPC01-280, 300, 03-270, 280, 3-580, 600, 620, 810, 811	CH
		The table contents were changed.	MPC03-280	CH
		Step 6 was changed	MPC03-281	CH
		Note was added.	MPC03-310	AD
		"Hitachi Disaster Recovery Extended", "global-active device" and "active flash" was added.	MPC03-330, 340, 350	AD
		Figure locate LED was added.	MPC03-550, 551, 552	AD
		"Auto Define Configuration Mode" was changed.	MPC03-690, 700, 701	CH
		Preamble was added.	MPC03-750, 04-390, 391	AD
		Table was changed.	MPC04-10, 30, 70, 80, 140, 290	CH
		Description of "Format Type" was changed.	MPC04-60	CH
		Description of RAID level was added.	MPC04-70	AD
		Step 5 was changed.	MPC04-150, 780	CH
		Description of "Port Speed" was changed.	MPC04-470, 480	CH
		"Task Name" of Table was deleted.	MPC04-610, 630	DL
		LDEV recovery task processing time was added in NOTE.	MPC04-630	AD
		NOTE was deleted.	MPC04-810	DL
		Step 4 was changed.	MPC05-430	CH
		Window was changed.	MPC05-570	CH
		Window name was changed.	MPC05-770	CH
		Step 3 was changed. Step 5 and 6 was deleted.	MPC05-1140, 1160	CH/DL
		"S model" was changed to "CBSS/CBSL".	MPC05-1170	CH
		Description of windows(Maintenance PC) was added.	MPC09-10	AD
		The re-attached in Chapter 9 of page.	MPC09-10 to 140	CH
		Status was changed.	MPC09-70	CH
		Deleted pages.	MPC09-150 to 180	DL
		Description of port numbers was added.	MPC10-10, 20, 30	AD
		PathINLINE A0 routine of Wait window fix.	DIAG04-70, 120	CH
		Error Code was added.	DIAG06-840	AD
		ACC code was changed.	ACC04-40, 41, 130, 131, 140, 170, 180, 190, 200, 220, 230, 240, 250, 320, 380	CH
		ACC code was added.	ACC04-40, 60, 140, 200, 320, 621	AD
		New pages added.	ACC04-41, 131, 621	AD
		Addition of a Life expiry warning for Air Filter	SIMRC02-40	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Added the postscript contents of the variable of SIM cord and deleted the about DCR description	SIMRC02-70, 80, 140, 150, 170, 320	AD/DL
		Table was added.	SIMRC02-110, 120, 130, 140, 150, 160, 170	AD
		"global-active device" was added.	SIMRC02-110	AD
			SSBLOG00-20, 02-30, 04-20, 05-3160, 3170	
		"List of Reference Codes of SIMs Detected by GAD Processor" was added.	SIMRC02-170	AD
		P.P. information was added.	SIMRC02-310	AD
		Step 2.(35) was added.	SIMRC02-310	AD
		LAN error (CTL1-CTL2) and MP error in GUM detection error was added.	SIMRC02-320	AD
		3.10.1 and 3.10.2 was added.	TRBL00-20, 02-430, 03-191, 192, 193	AD
		3.28.1 was added.	TRBL00-20, 30, 40, 50, 60, 03-671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689	AD
		10.6 was added.	TRBL00-50, 60, 2-440,441, 10-91	AD
		3.51 and 3.52 was added.	TRBL00-30, 02-440, 03-1130, 1140, 1150, 1160	AD
		18 was added.	TRBL00-60, 70, 18-10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180	AD
		Flowchart was changed.	TRBL02-180, 181, 190, 03-870, 04-230, 06-40, 80, 160, 07-160, 11-120	CH
		New pages added.	TRBL02-441, 10-91	AD
		"*2" was added.	TRBL03-110	AD
		*2 was added.	TRBL03-260	AD
		Description of "Is the target DKC PS instaled?" was deleted in the flow chart.	TRBL03-350	DL
		AC/DC voltage check in the flow chart was added.	TRBL03-360, 1060	AD
		Changed the contents of the coping method of the troubleshooting.	TRBL03-676, 677	CH
		Step 3 was added.	TRBL03-740	AD
		AC Input voltage check was added.	TRBL03-970, 980, 990	AD
		"global-active device" was added.	TRBL10-30, 120	AD
		*1 was changed	TRBL10-30	CH
		*1 was added.	TRBL10-90	AD
		"global-active device pair volume or Quorum disk volume" to "Pinned Tracks Volume" was added.	TRBL04-150	AD
		Subsection was added in the Contens. (1.10)	REP00-10	AD
		2.1.1.1 and 2.1.1.2 was added.	REP00-10, 20, 30, 02-01-10, 30	AD
		Title of 2.8.1.1 and 2.8.2.1 were changed.	REP00-20, 02-08-10, 160	CH
		Notice in the replacement work was added.	REP01-01-10	AD
		New pages added.	REP01-10-10, 20, 02-15-41, 51, 151, 02-17-51, 02-17-301, 391	AD
		Reference was changed.	REP01-06-10, 02-03-30, 40, 02-04-30, 160, 200, 330, 02-05-30, 110, 150, 260, 02-06-30, 90, 02-08-180, 230, 250, 320, 02-10-30, 60, 100, 140, 02-11-30, 90, 02-12-30, 70, 110, 160, 02-14-30, 80, 02-16-30, 70, 110, 150, 190, 230, 02-20-30, 70, 110, 150, 190, 230, 270, 310, 350, 390	CH
		Reference number of *5 was corrected.	REP01-06-20	CR
		"HDP/HDT/active flash-POOL" to the "DP/DT/DT (active flash)-POOL" was changed.	REP01-06-30	CH
		New HDD and CBLH to HDD copy time was added.	REP01-06-30, 40, 41	AD
		RAF1 and RAF2 were added.	REP01-06-70	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		" × " was moved.	REP01-07-10, 01-08-10, 01-09-10	CH
		MESSAGE ID was changed.	REP01-07-10, 01-08-10, 01-09-10, 20, 01-10-10, 20	CH
		" × " was deleted.	REP01-09-20	DL
		New pages added.	REP01-10-10, 20, 02-15-41, 51, 151, 02-17-51, 02-17-301, 391	AD
		Subsection 1.10 was added.	REP01-10-10, 20	AD
		Section number was changed.	REP01-11-10, 01-12-10	CH
		Windows was changed.	REP02-01-80, 02-03-20, 30, 40, 230, 02-04-20, 160, 170, 180, 190, 330, 340, 02-05-20, 30, 110, 120, 140, 150, 260, 270, 02-06-20, 30, 90, 100, 02-07-20, 60, 02-08-20, 70, 80, 90, 150, 170, 240, 250, 260, 02-09-20, 50, 02-10-20, 60, 70, 90, 140, 150, 02-11-20, 30, 90, 100, 02-12-20, 70, 80, 90, 100, 160, 170, 02-13-20, 21, 60, 70, 80, 120, 02-14-20, 80, 90, 02-15-20, 21, 60, 70, 80, 120, 140, 180, 190, 200, 240, 250, 260, 300, 02-16-20, 70, 80, 90, 100, 150, 160, 170, 180, 230, 240, 02-20-20, 30, 70, 80, 90, 100, 150, 160, 170, 180, 230, 240, 250, 260, 310, 320, 330, 340, 390, 400	CH
		NOTE was added. (or content was added.)	REP02-01-80, 02-03-190	AD
		Procedure for closing rear door was changed.	REP02-02-100, PIRIOD02-10, 20	CH
		Shared Memory (SM) Capacity was changed.	REP02-03-10, 02-04-10, 180, 02-05-10, 130, 02-06-10, 02-07-10, 02-08-10, 80, 160, 240, 02-09-10, 02-10-10, 80, 02-11-10, 02-12-10, 30, 90, 110, 02-13-10, 70, 02-14-10, 30, 02-15-20, 70, 130, 190, 250, 02-16-10, 90, 170, 02-20-11, 90, 110, 170, 250, 330	CH
		Password request was changed.		
		Note was added.	REP02-03-40	AD
		"5. Check Controller Board" was deleted.	REP02-04-40, 200	DL
		"Optical cables and SAS cables" to the "cable" was changed.	REP02-04-50, 150, 02-05-60, 100, 02-06-60, 80, 02-17-40, 110	CH
		*1 in the Table was deleted.	REP02-05-50	DL
		Step 3.(4) was moved from Step 4.(1).	REP02-06-30	AD
		Step 4.(1) was added.	REP02-06-50	AD
		The reference item numbers were added.	REP02-08-10	AD
		SMALL FORM-FACTOR PLUGGABLE (10 Gbps ShortWave) was added.	REP02-13-30, 90, 02-17-50	AD
		NOTICE was added.	REP02-15-10	AD
		Description of AC power supply was added.	REP02-15-10	AD
		Description was changed.	REP02-15-50, 160, 02-17-300	CH
		Correction.	REP02-05-60, 70, 02-06-60, 70, 02-08-190, 280, 02-17-180, 02-20-220, 221, 300, 301	CR
		Removal steps of DKCPS was changed.	REP02-17-51	CH
		Step (1) was changed.	REP02-17-130, 410	CH
		Description was added.	REP02-17-280	AD
		(11) and (12) was moved to REP02-21-50.	REP02-21-40	DL
		Firmware version is added to the case of more than 83-01-21.	REP02-21-50	AD
		2.22 was added.	REP02-22-10, 20	AD
		"5. Web Console Message ID" and "6. Error Code of the Storage Device List" were deleted.	MSG00-10, 20, 30, 40, 05-01-10 to 05-19-40, 06-01-10 to 70	DL

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		ID2032, ID2033, ID2035, ID2036, ID2037, ID2059, ID2073, ID2074, ID2075, ID2076, ID2078, ID2466 was deleted. ID2031, ID2034, ID2079, ID2119, ID2788, ID2793, ID3364, ID4350, ID4351, ID4363, ID4483, ID4484, ID4488 was changed. ID3685, ID4587, ID4589 was added.	MSG03-260, 270, 280, 290, 300, 420, 540, 550, 660, 1090, 1110, 1170, 1180 MSG03-740, 1260	CH/DL AD
		SMALL FORM-FACTOR PLUGGABLE (10 Gbps ShortWave) was added.	PARTS02-20, 40, 41, 42, 43, 60, 80, 81, 82, 83, 100, 110, 120, 140, 150, 160, 03-70, 80, 90, 91	AD/CR
		UNTTS PER ASSY of Channel was changed.	PARTS02-30	CH
		Model Name and Number was changed.	PARTS02-30, 40, 42, 43, 70, 80, 82, 83, 110, 120, 150, 160, 190, 230, 243, 270, 310, 323, 340, 370, 410	CH
		CHANNEL BOARD name was changed.	PARTS02-30, 40, 42, 43, 70, 80, 82, 83, 110, 150, 03-70	CH
		New pages added.	PARTS02-41, 42, 43, 81, 82, 83, 241, 242, 243, 244, 321, 322, 323, 324, 03-91	AD
		Disk Board (BS12GE) was added.	PARTS02-120, 160, 03-50	AD
		PARTS LIST numbers were changed.	PARTS02-70, 110, 150, 190, 230, 270, 310, 340, 370, 410, 430	CH
		DC Power Cable was added.	PARTS02-420, 421, 430, 03-91	AD
		Reedited due to adding the Channel Board.	PARTS03-70, 80, 90, 91	AD/CH
		Drive types were added.	PARTS03-80, 90	AD
		1.8TB HDD transfer rate was changed.	PARTS03-80	CR
		Refilling Charge Specifications was changed.	PARTS03-110, 120	CH
		Battery operation standard was changed.		
		Tool was deleted of table 4-1.	PARTS04-10	DL
		Description of CHK4 was deleted.	GLOSSARY01-10	AD/DL
		Description of GUM, Maintenance PC, Maintenance Utility, WCHK1 and Web Console was added.	GLOSSARY01-20, 30, 40	AD
		Step 9. was added. “SVP IP” was changed to “MPC IP” in step 11.. “...addresses of the SVP and the...” was changed to “...addresses of the Maintenance PC and the...” in NOTE.	MPC01-141	AD/CR
		Changed sentence in *1. “SVP” was changed to “MPC” in *1.	TRBL18-80	CH/CR
		Changed sentence in “Maintenance PC”.	GLOSSARY01-20	CH
		“MPC” was added.	GLOSSARY01-30	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
1.3	Jun.16.2015	REV.1.2 → REV.1.3	i	CH
		Title of 3.3.1 and 3.3.2 were changed.	FIRM00-10	CH
		Update Firmware time in Table was changed.	FIRM03-20, 40	CH
		Description of 3.3.1 was changed.	FIRM03-50, 60	CH
		Procedure in browser was deleted.	FIRM03-70, 140	DL
			INST03-03-10, 150, 03-04-60, 260, 280, 460, 470, 640, 03-05-10, 80, 03-06-10, 03-07-10, 130, 03-08-20, 50, 03-09-10, 90, 04-03-10, 150, 04-04-60, 220, 230, 420, 430, 580, 04-05-10, 70, 04-06-10, 04-08-10, 40 MPC03-30, 80, 180, 240, 270, 290, 380, 840, REP02-03-10, 210, 02-04-10, 170, 180, 340, 02-05-10, 120, 130, 270, 02-06-10, 100, 02-07-10, 60, 02-08-10, 70, 02-08-80, 150, 160, 230, 240, 320, 02-09-10, 50, 02-10-10, 70, 80, 150, 02-11-10, 100, 02-12-10, 80, 90, 170, 02-13-10, 60, 70, 120, 02-14-10, 90, 02-15-10, 60, 70, 120, 130, 180, 190, 240, 250, 300, 02-16-10, 80, 90, 160, 170, 240, 02-20-11, 80, 90, 160, 170, 240, 250, 320, 330, 400	
		Correction by the review of the reference destination	FIRM04-20, 90 INST00-00-50, 02-01-20, 02-05-20, 03-02-30, 03-70-70, 210, 06-01-10, 11, 20, 30, 40, 50, 60, 70, 80, 90, 110, 120, 130, 140, 150, 160, 180, 190, 200, 210, 06-02-10, 20 04-07-130, 230, 420, 570 MPC00-10, 01-140, 225, 390, 400, 410, 420, 430, 04-810, 820, 05-100, 400, 410, 411, 650, 651, 830, 980 ACC03-20, 04-630, 640 SIMRC02-80 SSBLOG00-01, 04-10, 05-3480 TRBL02-60, 200, 250, 260, 270, 280, 420, 03-270, 280, 350, 360, 380, 540, 620, 720, 790, 810, 870, 880, 890, 910, 950, 1061, 04-30, 210, 220, 240, 260, 400, 1030, 1070, 1090, 1180, 1200, 06-150, 10-40, 50, 11-50, 18-50, 60, 70 REP00-10, 01-05-30, 10, 01-06-10, 20, 02-03-20, 40 to 220, 02-04-60, 240, 02-05-70, 180, 02-06-70, 02-11-60, 02-17-30, 120, 240, 360, 02-20-50, 60, 61, 80, 130, 140, 141, 150, 210, 220, 221, 230, 300, 301, 310, 380, 381, 390, 472	CH
		Correction of the review result by the actual machine inspection	FIRM03-100 INST01-06-50, 70, 80, 90 MPC01-250, 270, 280, 310, 03-90, 110, 130, 150, 170, 480, 490, 500, 520, 530, 04-90, 330, 420, 470, 500, 510, 530, 550, 560, 820, 05-40, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160 REP02-01-50, 70, 80	AD/CH
		Correspondence at the time of abnormal termination was added.	FIRM05-10, 200	AD
		The time until the LED in Step 5. was added.	FIRM05-10, 200	AD
		Item number was changed.	FIRM05-430	CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Unification of description. (firmware, CTL*, PK, Storage System, P.P.	FIRM04-10 THEORY01-01-10, 02-03-10, 02-04-120, 02-13-290, 300, 370, 02-14-20 INST 03-01-30, 05-01-10, MPC00-30, 40, 50, 02-30, 222, 300, 410, 480, 500, 510, 04-450, 05-910, 03-280, 281, 08-10, 20, DIAG02-30 ACC04-20 SIMRC02-80, 140, 3150, 170, 20 SSBLOG05-680 TRBL00-10, 20, 30, 40, 50, 500, 510, 02-411, 440, 03-350, 870, 1080, 1110, 07-10, 10-10, 100, 11-120, 18-10 REP00-10, 01-02-10, 01-03-160, 01-07-10, 02-03-210, 02-12-30, 110, 02-14-30, GLOSSARY01-10, 20, 30, 40	AD/CH
		Description of DIMM was changed.	THEORY02-01-140	CH
		System of specifications and note were changed.	THEORY02-02-10, 20	CH
		Reference item was added.	THEORY02-10-10	AD
		Reference item was changed.	THEORY02-13-290, THEORY02-13-300	CH
		Note of CFM was deleted.	INST03-01-30	DL
		Deleted page.	INST03-06-11, 03-07-11, 03-08-21, 03-09-91, 04-08-41	DL
		Cache Memory size was changed.	INST03-07-160	CH
		Correspondence at the time of abnormal termination was added.	INST06-01-80	AD
		Item number was changed.	INST06-02-10	CH
		Title of 1.6.4 and 8.2 were changed.	MPC00-10, 60, 01-310, 08-20	CH
		Description of 1.6.4.1, 1.6.4.2 and 2.3 were added.	MPC00-10, 20, 01-310, 311, 312, 313, 02-20	AD
		Operation procedure was changed.	MPC01-50, 60, 70, 71,	CH
		NOTE was added.	MPC01-50	AD
		Address in the Table was changed.	MPC01-70	CH
		Description of SVP was added.	MPC01-150, 170, 190	AD
		Window was moved to page MPC01-170.	MPC01-160	AD
		Description of "3. Startig" was changed.	MPC01-170	CH
		"MPC software" was changed to "MPC window".	MPC01-222	CH
		New pages added.	MPC01-311, 312, 313, 03-281	AD
		Table of Troubleshooting was added.	MPC01-330, 331, 480, 490	AD
		Description of "World Wide Web Services" was added.	MPC01-390	AD
		Description of (2) was changed.	MPC01-410	CH
		Network failures was added.	MPC01-500	AD
		Description was added in the recovery action of JavaScript security troubleshooting.		
		Reference number was changed.	MPC02-70	CH
		Window was moved to page MPC03-181.	MPC03-180	AD
		Deleted page.	MPC03-181, 841	DL
		No.6 was moved to MPC03-281.	MPC03-280	DL
		No.6 was moved from MPC03-280.	MPC03-281	AD
		Stop Service in the Table was added.	MPC01-300	AD
		Reference number was added in Expander microprogram replacement.	SIMRC02-70	AD
		Table of Processor for DCR was deleted.	SIMRC02-110	DL
		Reference was added in Processor boot failure.	SIMRC02-320	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		2.2.15 was added.	TRBL00-10, 02-411	AD
		New page added.	TRBL02-411	AD
		Flow chart was changed.	TRBL03-350	CH
		Title of the 1.6.4 of MAINTENANCE SECTION was changed.	TRBL03-770, 780	CH
		Flow chart and reference were changed.	TRBL03-870, 880, 890	CH
		Description of DCR was deleted.	TRBL11-120	DL
		Description of copy operation was added.	REP02-03-210	AD
		GUM, Maintenance PC, Maintenance Utility, WCHK1 and Web console were added.	GLOSSARY01-10, 20, 30, 40	AD
1.2	May.28.2015	REV.1.1 → REV.1.2	i	CH
		The time until the LED in Step 5. was added.	FIRM05-10, 200	AD
		Reference of "Setting IIS" was changed.	FIRM05-160, 390, INST06-01-200	CH
		NOTE in Step 5. was deleted. The lighting location was changed. The time until the LED lights up was changed.	INST06-01-70	DL/CH
		The hardware diagnosis was deleted. NOTE was changed.	DIAG02-50, 04-200, 220, 230	DL/CH
		Reference page was changed. (TRBL02-130 → TRBL02-80)	TRBL03-180	CH
1.1	Apr.28.2015	REV.1 → REV.1.1	i	CH
		Flowchart was changed.	FIRM04-60	CH
		NOTE was added.	THEORY02-13-250, 260	AD
		Differences between the screen by the Firmware version was added.	MPC03-180, 181, 190, 200, 210, 211, 212, 220, 230, 230A	AD
		Lead sentence was changed.	MSG05-01-10	CH/DL
		STN/GUM message was deleted.	MSG05-01-20 to MSG05-19-01-40	
1	Mar.27.2015	REV.0 → REV.1	i	CH
		Page numbers were added.	ii to vi	AD
		EMI test configuration was changed.	iii	CH
		"Non-BNST free" was changed to "Contains BNST".	v	CH
		Figure 3.1.14 was changed.	SAFETY03-120	CH
		Description of VSP G100 in the NOTE was deleted.	OPTVER01-10, 20, 30, 40, 50, 60	DL
		Title change of Table 1-1.	OPTVER01-10	CH
		Table was changed.	OPTVER01-10, 20, 30, 40, 50, 60	CH
		Rack and SVP description added.	OPTVER01-20 THEORY02-01-10, 02-03-30 LOC03-240 INST01-04-100, 02-01-10, 02-02-10, 02-06-10 REP02-02-10, 02-21-10 TRBL15-30 PERIOD02-20 PARTS02-420	AD
		"*1: BNST free" was changed to "*1: Contains BNST".	OPTVER01-20, 40 THEORY02-01-250, 260, 02-02-60, 02-13-180, 190, 200, 210, 220, 230, 240, 250, 260 INST01-02-10, 20, 30, 40, 50, 70, 80, 90, 110, 120, 130, 03-03-20, 04-03-40 REP02-03-70 PARTS02-30, 70, 190, 230, 270, 310, 340, 370, 03-70, 80	CH
		Added Table 1-2 by dividing the Table 1-1.	OPTVER01-40, 50, 60	AD/CH

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Screen was changed.	FIRM03-50, 60, 110	CH
		Added the starting procedure from the browser to Maintenanc Utility starting procedure.	FIRM03-70, 03-130, 03-140, INST03-03-10, 150, 03-04-60, 260, 280, 460, 470, 640, 03-05-10, 80, 90, 03-06-10, 11, 03-07-10, 11, 130, 03-08-20, 21, 50, 03-09-10, 90, 91, 04-03-10, 150, 04-04-60, 220, 230, 420, 430, 580, 04-05-10, 70, 80, 04-06-10, 20, 04-08-10, 40, 41 MPC03-30, 03-80, 180, 240, 250, 270, 290, 300, 380, 840, 841, 09-10 REP02-03-10, 20, 230, 02-04-10, 170, 180, 340, 02-05-10, 120, 130, 140, 270, 02-06-10, 20, 100, 02-07-10-20, 60, 02-08-10, 70, 80, 150, 160, 170, 180, 230, 240, 320, 02-09-10, 20, 50, 02-10-10, 20, 70, 80, 90, 140, 150, 02-11-10, 20, 90, 100, 02-12-10, 20, 80, 90, 160, 170, 02-13-10, 60, 70, 120, 02-14-10, 20, 80, 90, 02-15-10, 60, 70, 120, 130, 180, 190, 240, 250, 300, 02-16-10, 80, 90, 160, 170, 230, 240, 02-20-10, 11, 80, 90, 150, 160, 170, 240, 250, 320, 330, 390, 400	AD/CH
		"JRE8" was added.	FIRM03-80, INST06-01-20, MPC03-40	AD
		Correction	FIRM03-110, 120, 130	CR
		NOTICE was added.	FIRM03-120	AD
		The MAINTENANCE SECTION was added in Step 2.	FIRM04-10	AD
		Number in flowchat was corrected, and reedited.	FIRM04-10, 60, 70, 80	CH
		NOTE was added.	FIRM03-120 TRBL03-1120	AD
		VSP G100 was deleted.	THEORY02-01-10, 40, 60, 100, 120, 140, 160, 180, 210, 220, 02-02-10, 20, 30, 40, 80, 02-03-10, 02-04-20, 30, 40, 50, 60, 70, 02-06-10, 20, 02-09-30, 02-13-10, 30, 70, 90, 110, 270, 280, 420, 02-15-10, 05-03-10, 40, 50, 60, 05-04-10 DIAG06-110, 170, 230, 310, 370, 410	DL
		Added 4TB in disk drive to support.	THEORY02-01-20	AD
		Description correction and detection of the THEORY OF OPERATION SECTION.	THEORY02-01-40, 60, 230, 240, 02-13-20, 40	CR/DL
		Figure 2-3 Corrected.	THEORY02-01-50	CR
		"DBX" was changed to "DB60".	THEORY02-01-40 ACC04-330	CH
		"AC-DC Power Supply" was changed to "Power Supply Unit".	THEORY02-01-60, 70, 03-01-10, 20	CH
		"blade" was changed to "board".	THEORY02-01-200, 02-08-10, 02-13-10, 110	CH
		Added 3.5 inches to supported SSD.	THEORY02-01-250	AD
		Maximum Number of Flash Drives was changed.	THEORY02-02-10, 40	CH
		"Module" was deleted.	THEORY02-02-20 LOC02-180, 190 REP02-05-50, 70 PARTS03-50, 60 GLOSSARY01-10	DL
		Maximum mountable number of drives was changed.	THEORY02-02-30	CH
		"MPBs" was changed to "I/F Boards".	THEORY02-04-100, 02-08-10, 02-12-30, 60, 04-02-10	CH
		"sevice processor (SVP)" was deleted.	THEORY03-01-10	CR/DL
		Figure 3-1 Corrected.		
		Chapter 3.6.1 was deleted.	THEORY03-06-10, 20, 30, 40	DL

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		"SVP" was changed to "Storage Navigator".	THEORY04-02-10	CH
		"CM-DIMM" was changed to "DIMM".	LOC02-190	CH
			INST01-03-40, 50, 03-07-240, 04-07-450, 600	
			PARTS03-40	
		"Cache Memory Modules" was changed to "Cache Memories"	LOC02-200	CH
		VSP G100 of NOTE was deleted.	LOC05-10, 20	DL
			PARTS02-30, 70	
		Subsection 1.2.4 was added.	INST00-00-10	AD
		New page added.	INST00-00-40, 01-02-241, 242, 243, 244, 245, 246, 247	AD
		Reedited due to deleting the VSP G100.	INST01-02-10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200	DL/CH
		SL"B"5B-M200SS and SL"B"5B-M400SS were corrected.	INST01-02-210, 220	CR
		Subsection 1.2.4 was added.	INST01-02-241, 242, 243, 244, 245, 246, 247	AD
		Description of firmware version restriction was added.	INST01-03-90	AD
		Description of VSP G100 was deleted.	INST01-03-100, 01-05-10, 40, 01-06-60, 03-04-10, 04-04-10	DL
		Screen was changed.	INST01-06-40, 50, 70, 80, 90 MPC01-240, 250, 270, 280, 310, 09-50 REP02-01-40, 50, 70, 80	CH
		Addition of Initial Startup Tool.	INST02-01-10, 11, 20, 02-15-10, 02-16-10, 02-17-10, 02-18-10, 20	AD/CH
		Reedited due to deleting the VSP G100.	INST02-02-40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150	DL/CH
		Figure was added.	INST03-04-70, 290, 480, 03-07-80, 04-07-140, 250, 600	AD
		Reedited.	INST04-05-40, 50, 60, 61, 100, 110, 120, 04-06-40, 50, 60, 61	CH
		NOTE was added.	INST04-05-40, 100, 04-06-40,	AD
		New pages added.	INST04-05-61, 121, 04-06-61	AD
		"Upgrade Model Name" was added.	INST05-01-10	AD
		Chapter 3.4 was changed.	MPC00-20, 03-190, 200, 210, 211, 220, 221, 222, 223, 224, 230, 231, 232, 233, 234, 235, 236, 237	CH
		"CBSS1/CBSL1" was changed to "CBSS/CBSL".	MPC01-30, 03-810, 04-240, 05-350	CH
		(Supervisor PC) was added.	MPC01-70	AD
		"JRE(Client)" was added.	MPC01-110, 150, 180, 08-10	AD
		Correction	MPC01-150, 180, 190	CR
		Function list was added.	MPC01-221, 222, 223, 224, 225	AD
		Title was changed.	MPC01-320	CH
		Chapter move 9.1 to chapter 1.8.2.5 to 1.8.2.7.	MPC01-471, 472, 473, 474, 09-10,20,30,40	CH
		Figure was changed.	MPC01-490	CH
		Table was changed.	MPC01-500	CH
		Additional password input request.	MPC02-290	AD
		Text was changed.	MPC03-310	CH
		Chapter 3.7.2.1 was deleted.	MPC03-330, 340, 350	DL
		Chapter 3.7.2 was changed.	MPC03-330, 340, 350, 360	AD/CH
		Chapter 3.7.3 was added.		
		"Remote Replication Extended (Disaster Recovery Extended)" was deleted.	MPC03-380, 410, 420, 430, 440 SIMRC02-310	CH
		Screen was changed.		
		Change [Action] description of the ID2788.	MSG03-540	CH
		NOTE two to adds the "Auto Define Configuration Mode"	MPC03-700	AD

Legend for revision codes : AD : Addition CH : Change CR : Correction DL : Deletion

REV.	Date	Description	Sheet No.	Code
		Deletion	MPC03-770, 780	DL
		"Failed" was added.	MPC03-820	AD
		Description of "Format Type" was changed.	MPC04-60	CH
		"MPB" was changed to "I/F Board".		
		NOTE was added.	MPC04-320, 390, 840	AD/CH
		Title of 4.2.2.4, 4.2.2.5 and 4.2.3.6 was changed.		
		NOTICE was added.	MPC05-10, 11	AD
		Step 10, 11 was added.	MPC05-840	AD
		"microprogram" was changed to "Firmware".	MPC05-1020	CH
		Chapter 7.2 was added.	MPC07-10, 170, 180, 190, 200, 210	AD
		Delete how to uninstall.	MPC08-10	DL
		Changed reference.	DIAG02-30	CH
		Changed the code of CHB and DKB(ALL)	ACC04-20, 70	CH
		Work ID was added to SAS Cable(ACC)	ACC04-380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620	AD
		Corrected the description of the reference.	ACC04-640, 650	CR
		"Drive Box" was corrected to "DB".	SIMRC02-80	CR
		Location description of the DB# was added.	SIMRC02-230, 231	AD
		Correcting the table of Contents of SSBLOG sectiona for a capital letter from a small letter	SSBLOG00-10, 20, 05-180, 3200	CR
		Chapter 18. was added.	TRBL00-60	AD
		Flowchat was changed.	TRBL02-30, 80, 190, 240, 420, 03-1010	CH
		"CBSS1/CBSL1" was changed to "CBSS/CBSL".	TRBL02-160	CH
		Chapter 3.30.1 was changed.	TRBL03-760, 761, 762	CH
		Chapter 3.37 was changed.	TRBL03-860, 861, 870, 880, 910, 920, 930	CH
		Flowchart was changed.	TRBL03-1060, 1061	CH
		CBLH was added.	TRBL15-50	AD
		Chapter 18. was added.	TRBL18-10	AD
		Replacing Time was changed.	REP01-05-10	CH
		Change Procedure of Cache Flash Memory.	REP01-06-50	CH
		"RSC1" was added to Work ID.	REP01-06-70	AD
		"Failed" was added.	REP02-03-20	AD
		Of the (2) deleted "Selecting replacement parts by Maintenance Utility"	REP02-03-20, 30, 40, 50, 60	CH
		"Get the error information" step added.	REP02-03-230, 240, 02-04-170, 340, 02-10-70, 150, 02-12-80, 170, 02-14-90	AD
		Description of Copy backless in the NOTE was added.	REP02-03-230	AD
		NOTICE was added.	REP02-04-60, 240	AD
		Figure was added.	REP02-04-70, 270, 02-05-70, 210	AD
		"Controller" was changed to "Cache Memories".	REP02-05-40, 160	CR
		Description of (3) was changed.	REP02-06-40	AD
		Description of (2) was changed.	REP02-07-20, 02-09-20	CH/AD
		NOTE was added.	REP02-07-20, 02-09-20, 02-21-30	AD
		[Replace Battery] of the contents of NOTE were corrected to the [Block].	REP02-08-20	CR
		Window of CBSL was changed.	REP02-09-20	CH
		Enlarged View was changed.	PARTS03-110, 120	CH
		Added "Dump file name Coverision Tool" in Table 4.2.	PARTS04-20	AD
		"BFM (Boot Flash Memory)" was added.	GLOSSARY01-10	AD
		"Disk Blade" was changed to "Disk Board".	GLOSSARY01-20	CH
0	Feb.27.2015	Issued	All	-